

THE CITY OF WALTHAM
MASSACHUSETTS

PURCHASING DEPARTMENT

**DESIGN for the Exterior Improvements to Waltham City Hall,
610 Main Street, Waltham, MA 02452**

ADDENDUM NO. 1

Sept. 1, 2017

CHANGES, CORRECTIONS AND CLARIFICATIONS

The attention of bidders submitting proposals for the above subject project is called to the following addendum to the specifications. The items set forth herein, whether of omission, addition, substitution or clarification are all to be included in and form a part of the proposal submitted.

THE NUMBER OF THIS ADDENDUM (NO. 1) MUST BE ACKNOWLEDGED IN YOUR COVER LETTER

ITEM 1: CITY HALL DRAWINGS

SEE THE ATTACHED THE AVAILABLE CITY HALL DRAWINGS

End of Addendum 1

RENOVATIONS

AT

WALTHAM CITY HALL

610 MAIN STREET

WALTHAM, MA 02154

ENGINEERS

AEROSPACE SYSTEMS, INC. (ASI)

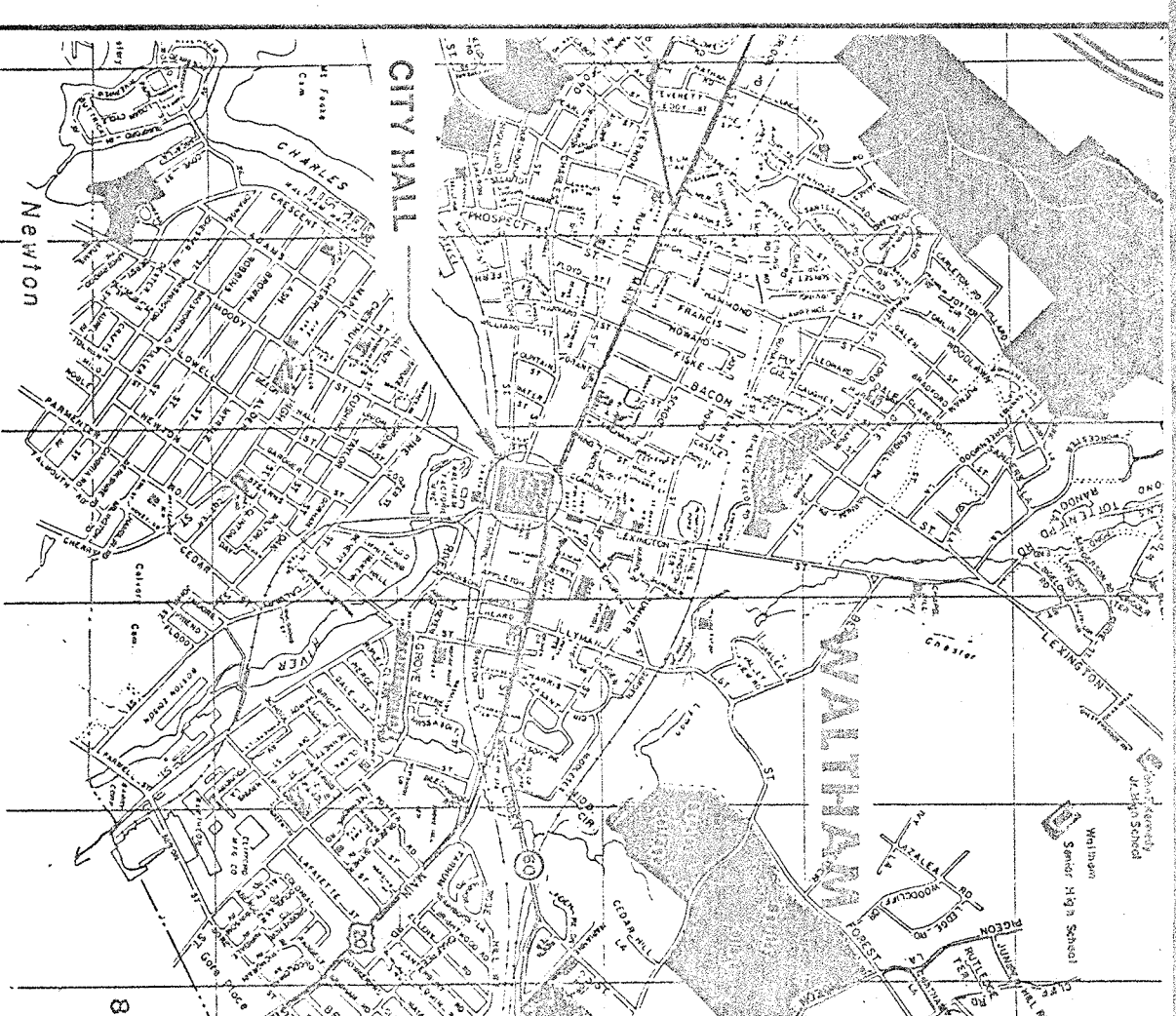
ENERGY SYSTEMS DIVISION

121 MIDDLESEX TURNPIKE

BURLINGTON, MA 01803

CERTIFIED INDUSTRIAL HYGIENISTS

HYGEIA INC.
WALTHAM, MA



LOCATION MAP

LIST OF DRAWINGS

SHEET NO.	TITLE
1	T-1 TITLE SHEET AND LOCATION MAP
2	T-2 GENERAL NOTES AND LEGEND
3	AR-1 ASBESTOS REMOVAL AREAS - BASEMENT
4	AR-2 ASBESTOS REMOVAL AREAS - FIRST FLOOR
5	AR-3 ASBESTOS REMOVAL AREAS - ATTIC
6	D-1 LIGHTING AND HVAC DEMOLITION PLANS
7	A-1 ELEVATIONS AND MASONRY DETAILS
8	A-2 WINDOW ELEVATIONS AND SCHEDULE
9	A-3 WINDOW AND DOOR DETAILS
10	A-4 BASEMENT REFLECTED CEILING PLAN
11	A-5 FIRST FLOOR REFLECTED CEILING PLAN
12	HVAC-1 BASEMENT FLOOR PLAN - HVAC
13	HVAC-2 FIRST FLOOR PLAN - HVAC
14	HVAC-3 SECOND FLOOR PLAN - HVAC
15	HVAC-4 ATTIC PLAN - HVAC
16	E-1 BASEMENT ELECTRICAL PLAN
17	E-2 FIRST FLOOR ELECTRICAL PLAN
18	E-3 SECOND FLOOR ELECTRICAL PLAN
19	E-4 ROOF ELECTRICAL PLAN

CITY OF WALTHAM
BUILDING DEPARTMENT
DATE: 7/16/89
PROJECT: 89-216
APPROVED FOR DIVISION
BUILDING INSPECTOR

GR DE 73 - PLAN 26

ASI ENERGY SYSTEMS DIVISION

SCALE NO. SCALE: 1/8" = 1'-0" DRAWN BY: JZ DATE: 4/89

TITLE SHEET AND LOCATION MAP

WALTHAM CITY HALL

LEGEND

	EXISTING LIGHT FIXTURE TO BE REMOVED
	LIGHTING FIXTURE LOCATION IN SUSPENDED CEILING
	CONNECTION POINT OF NEW TO EXISTING
	STRAINER (WITH 3/4 BLOW OFF VALVE)
	GATE VALVE
	CHECK VALVE
	PRESSURE GAUGE
	LOW PRESSURE STEAM
	LOW PRESSURE CONDENSATE RETURN
	SELF-CONTAINED THERMOSTATIC RADIATOR VALVE
	THERMOSTATIC STEAM TRAP
	FLOAT AND THERMOSTATIC STEAM TRAP
	GAS METER
	WATER METER
	SUPPLY AIR DIFFUSER W/CFM
	ROOM THERMOSTAT (COOLING)
	RETURN AIR/EXHAUST AIR REGISTER
	ROOM THERMOSTAT (HEATING)
	EGG GRATE RETURN GRILLE
	VARIABLE AIR VOLUME TERMINAL UNIT W/CFM
	VOLUME DAMPER
	FIRE DAMPER
	HOME RUN TO PANELBOARD, NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS
	SINGLE POLE SURFACE MOUNTED TOGGLE SWITCH
	EXISTING POWER/LIGHTING PANEL
	MOTOR, NUMBER INDICATES HORSEPOWER
	FLUORESCENT LIGHTING FIXTURE, LETTER INDICATES SPECIFIED TYPE
	BOILER SAFETY SWITCH

ABBREVIATIONS

WG	WIRE GLASS
BF	BOILER FEED
G	GAS
CW	COLD WATER
DHW	DOMESTIC HOT WATER
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
SAD	SUPPLY AIR DUCT
RAD	RETURN AIR DUCT
SD	SUPPLY DIFFUSER
SR	SUPPLY REGISTER
RR	RETURN REGISTER
RTU	ROOFTOP UNIT
CB	CIRCUIT BREAKER

LEGEND CONTINUED

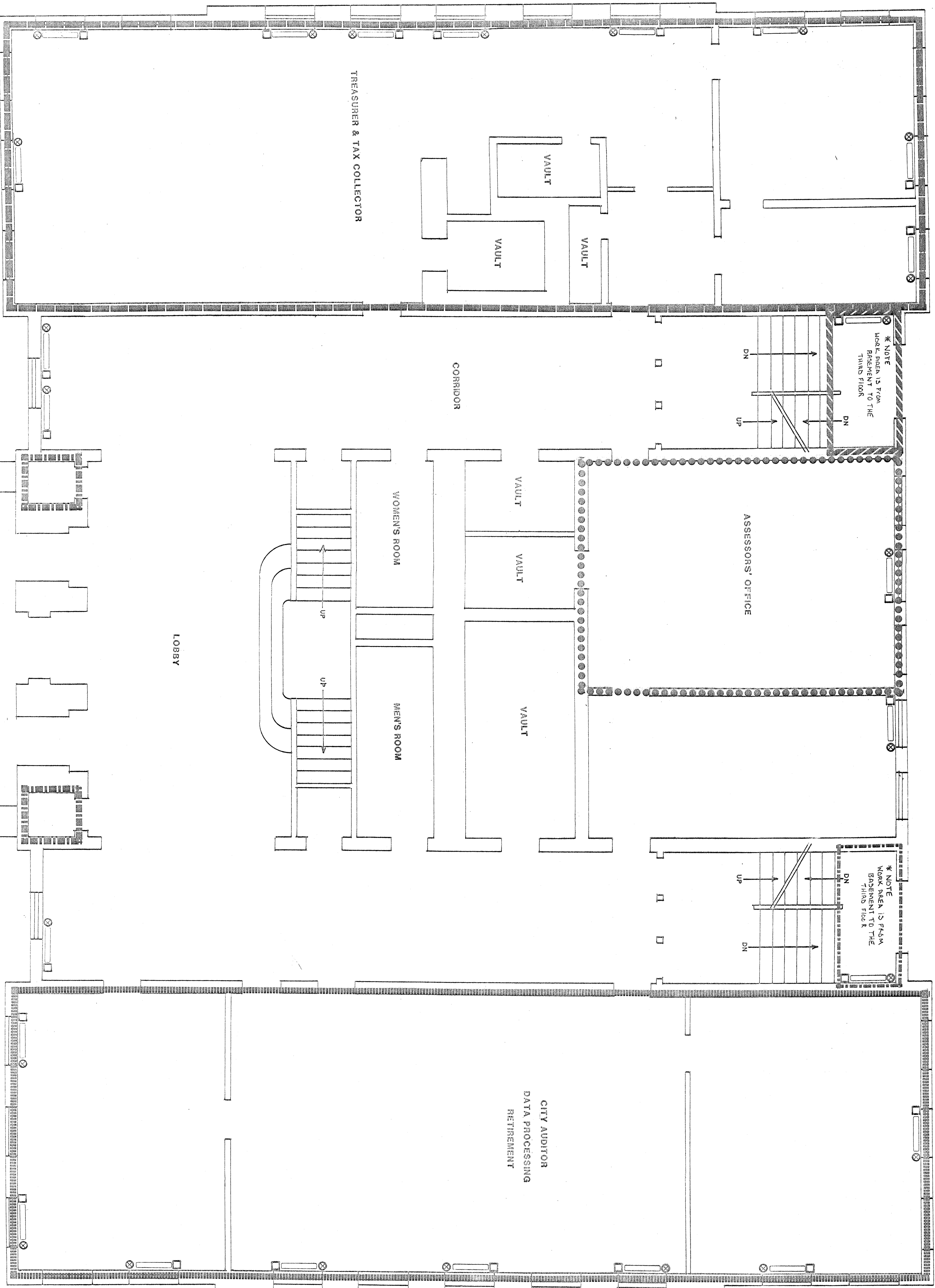
	SUSPENDED GLOBE INCANDESCENT LIGHT FIXTURE, LETTER INDICATES SPECIFIED TYPE
	THREE WAY SURFACE MOUNTED TOGGLE SWITCH
	SINGLE POLE SURFACE MOUNTED TOGGLE SWITCH CONTROLLING 2 OF 4 LAMPS IN RECESSED FLUORESCENT FIXTURES
	SURFACE MOUNTED DIMMER SWITCH
	THREE WAY SURFACE MOUNTED DIMMER SWITCH
	ELEVATION AREA REQUIRING MASONRY WORK
	LOCATION OF SUPPLY AIR DIFFUSER IN SUSPENDED CEILING
	LOCATION OF RETURN AIR GRILLE IN SUSPENDED CEILING

GENERAL NOTES

- THE CITY HALL WILL BE FULLY OCCUPIED DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A PHASING SCHEDULE WITH BID AND FULLY COORDINATE WORK SCHEDULE WITH THE ENGINEER AND THE CONSTRUCTION REPRESENTATIVE AT THE CITY HALL PRIOR TO COMMENSAL WORK.
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH TECHNICAL SPECIFICATIONS.
- CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL DETAILED SHOP DRAWINGS OF ALL EQUIPMENT AND WORK. ALL SHOP DRAWINGS MUST BE ACCOMPANIED BY ELEVATION AND VERTICAL CURVE DATA, AND SHALL BE ARRANGED TO PROVIDE CLEARANCE AND PERFORMANCE CHARACTERISTICS.
- CONTRACTOR SHALL HAVE READY AT SITE ALL MATERIAL REQUIRED FOR EACH AREA OF WORK PRIOR TO STARTING WORK IN THAT AREA.
- PHYSICAL SIZE OF EQUIPMENT SHALL BE SUITABLE FOR THE SPACE ALLOCATED FOR THE ACCOMMODATION OF SUCH EQUIPMENT, AND PROVIDING ACCESS FOR MAINTENANCE PURPOSES.
- DURING THE PROGRESS OF THE WORK, ALL OPEN ENDS OF PIPES, CONDUITS, DUCTS, ETC., SHALL BE SUITABLY CAPPED TO PREVENT THE INGRESS OF FOREIGN MATTER.
- ALL ANTI-VIBRATION DEVICES FOR EQUIPMENT AND PREWORK SHALL BE OF SPRING TYPE, UNLESS OTHERWISE SHOWN ON DRAWINGS.
- PROVIDE ALL WARNING SIGNS, TAPE, FLASHERS, ETC., AS REQUIRED TO PROTECT THE SAFETY OF THE PUBLIC DURING THE COURSE OF THE CONSTRUCTION.
- CONTINUOUSLY CLEAN ALL WORK AREAS DURING CONSTRUCTION AND SAFELY STORE AND SECURE ALL MATERIALS, EQUIPMENT, AND TOOLS AT THE END OF EACH WORK DAY.
- TWO WEEKS PRIOR TO FINAL INSPECTION PROVIDE A COMPLETE AND ACCURATE SET OF MARKED-UP DRAWINGS SHOWING EQUIPMENT LOCATIONS AND PIPING AND WIRING RUNS AS ACTUALLY INSTALLED.
- ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACE SHALL BE CONCEALED IN FURRED CHASES OR ABOVE SUSPENDED CEILING.
- ACCESS PANELS IN WALLS AND PLASTERED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC., AND SHALL BE FURNISHED AND INSTALLED UNDER ARCHITECTURAL SPECIFICATIONS.
- CONTRACTORS ARE REQUIRED TO EXAMINE THE EXISTING SITE CONDITIONS BEFORE SUBMITTING THEIR BIDS. NO CLAIM WILL BE ALLOWED FOR EXTRA WORK DUE TO EXISTING SITE CONDITIONS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATION OF CEILING DIFFUSERS, REGISTERS, GRILLES, AND RECESSED LIGHTING FIXTURES.
- CONTRACTOR IS RESPONSIBLE FOR NEATLY CUTTING AND PATCHING UP EXISTING MOLDINGS, PLASTER, CASINGS, ETC., AS NECESSARY FOR THE INSTALLATION OF THE WORK. CONSULT WITH THE ENGINEER AND THE OWNER PRIOR TO CUTTING ANY EXISTING MOLDINGS, PLASTER, OR CASINGS.
- CONTRACTOR SHALL CONSTRUCT, FINISH PLASTER AND PAINT SOFFIT TO CONCEAL DUCT AT CEILING OF SECOND FLOOR WEST HALL ADJACENT TO MAYOR'S RECEPTION OFFICE.

- LEGEND**
- MINOR WORK AREA #6
 - MINOR WORK AREA #7
 - MINOR WORK AREA #8
 - MINOR WORK AREA #5
 - MINOR WORK AREA #10
 - MINOR WORK AREA #11, #12

***NOTE**
PIPES SHOWN ARE
REPLACEMENT PIPES ONLY -
NOT EXISTING PIPES



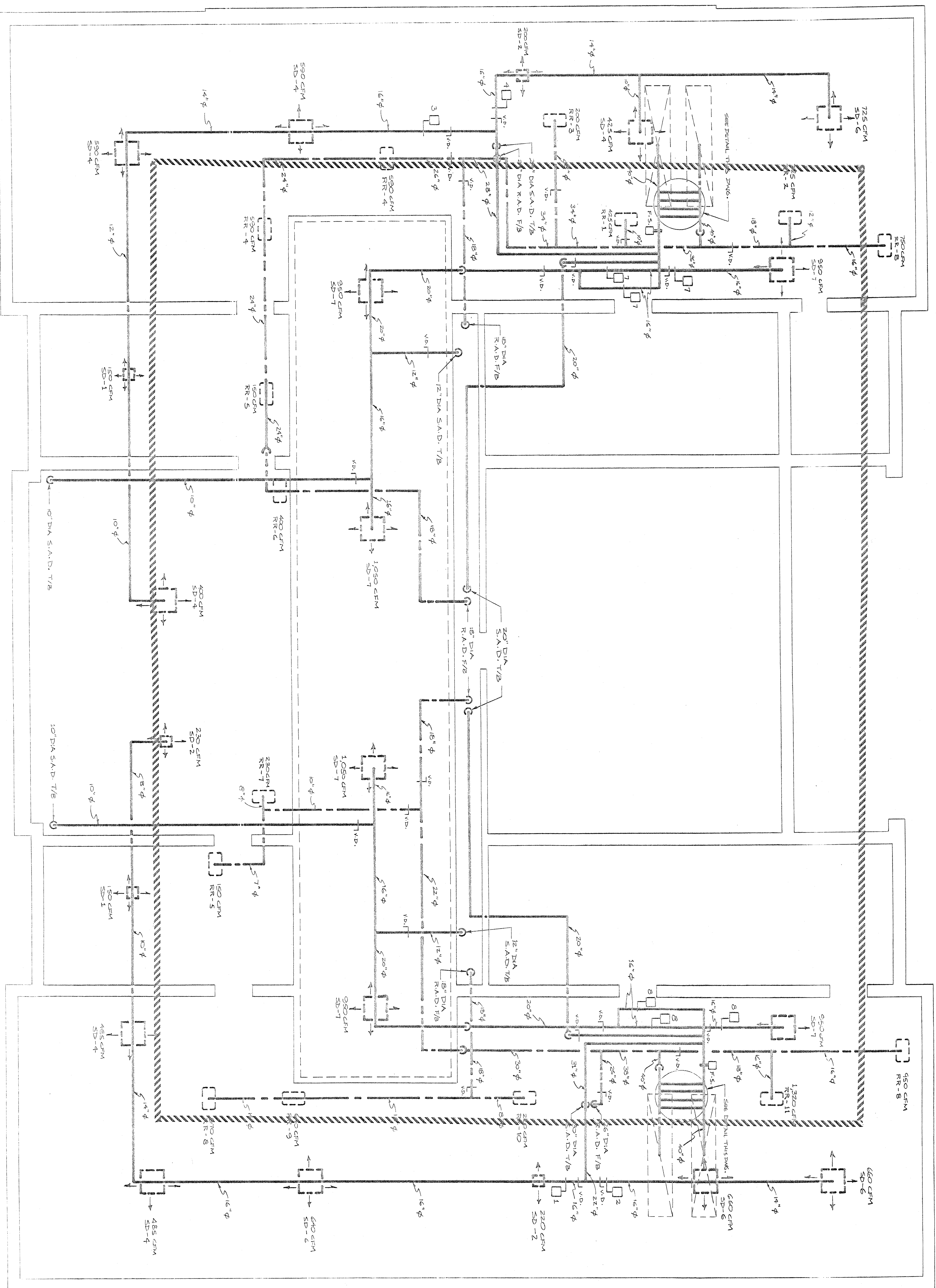
FIRST FLOOR PLAN



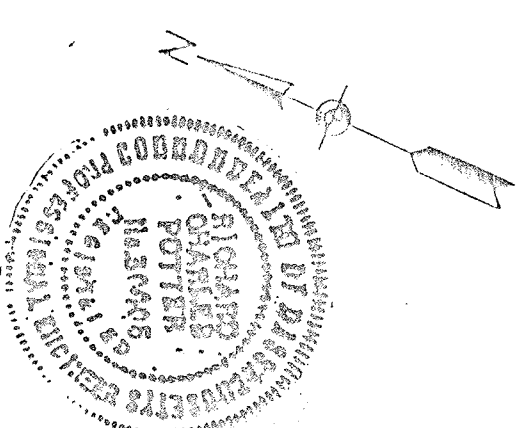
HYGEIA INC	
172-37-30	WALTHAM, MA 02451
APR 80	ASBESTOS REMOVAL AREAS - FIRST FLOOR
WALTHAM CITY HALL	AR-2

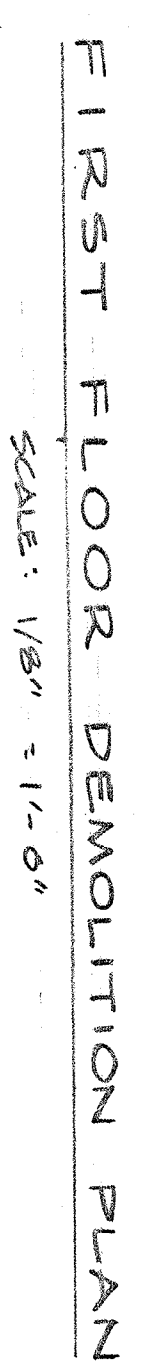
/// M1140F is C-14 AB2A #15

* NOTE
PIPES SHOWN
ARE REPLACEMENT
PIPES ONLY - NOT EXISTING
PIPES



ATTIC FLOOR PLAN





SCALE: 1/8" = 1'-0"



SCALE: 1/8" = 1'-0"

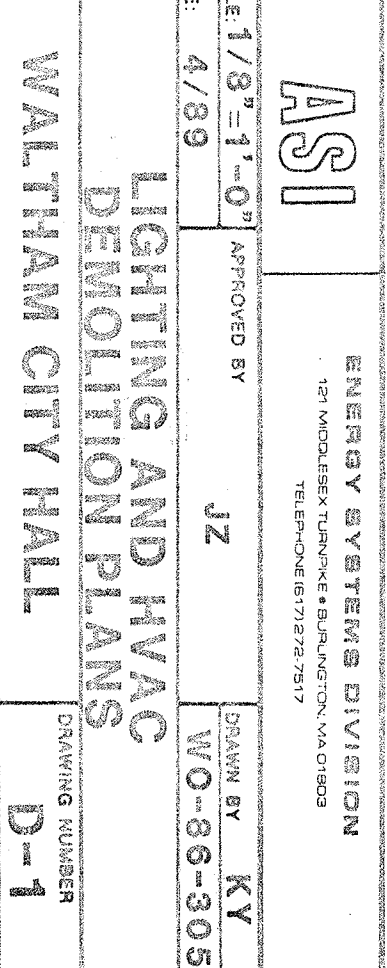


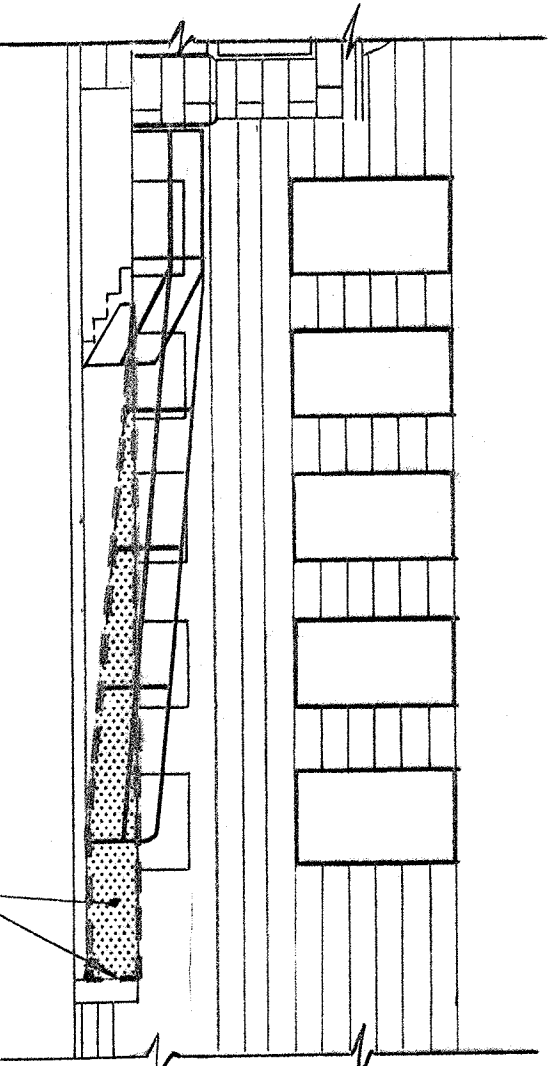
SCALE: 1/8" = 1'-0"



SCALE: 1/8" = 1'-0"

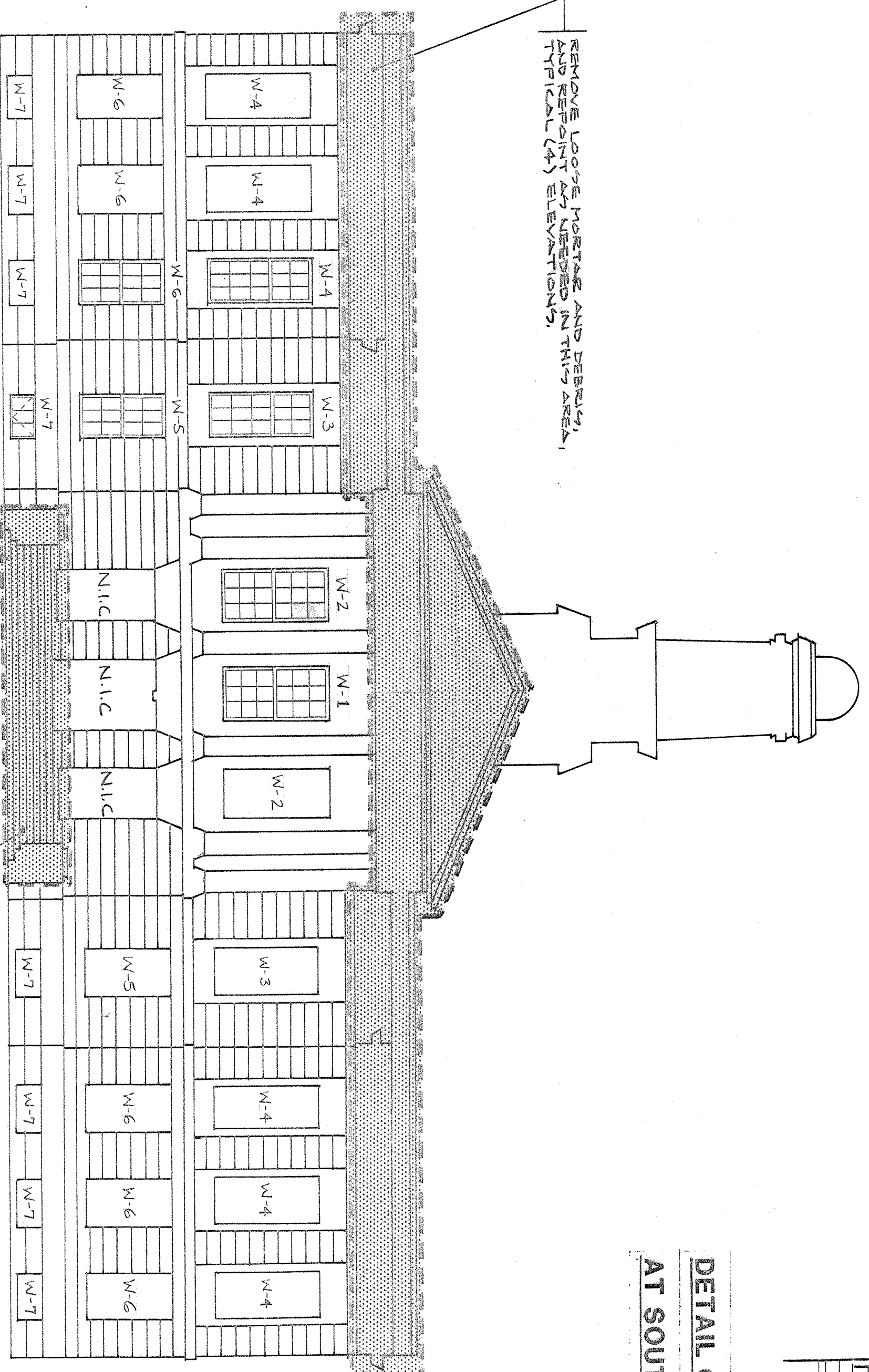
- ### DEMOLITION NOTES





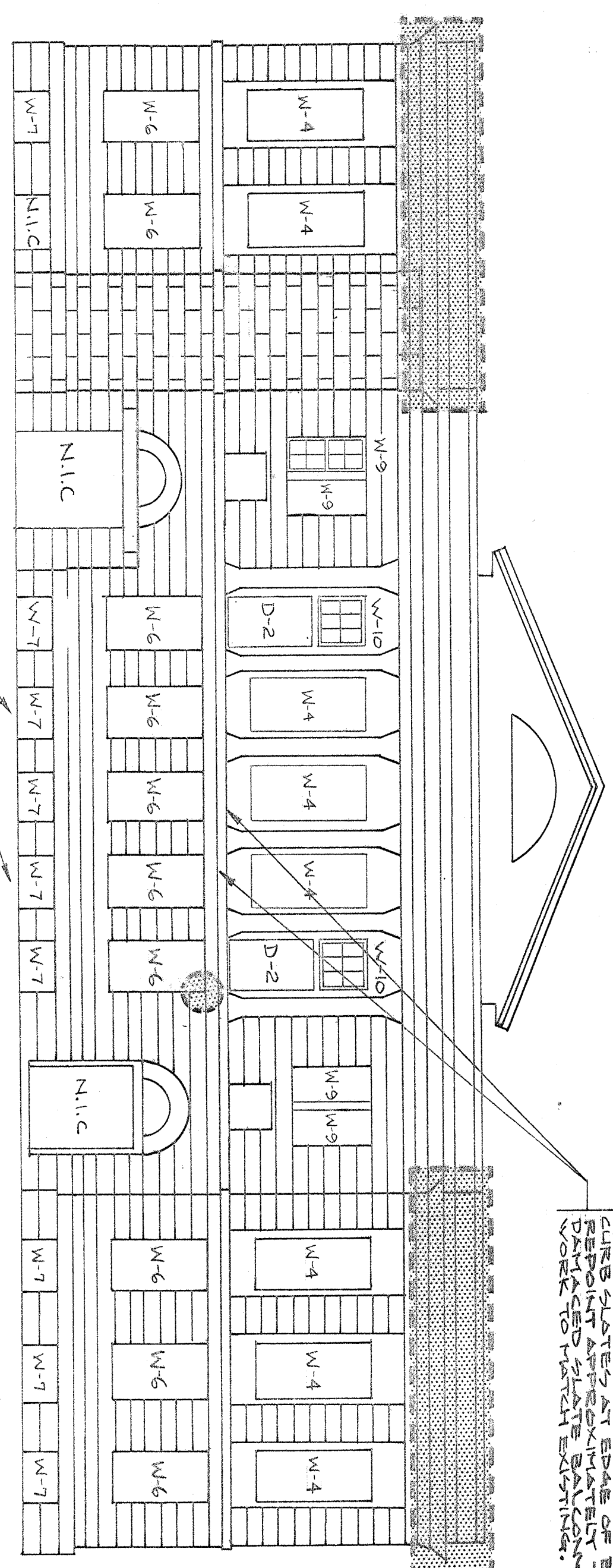
DETAIL OF CONCRETE FOUNDATION MASONRY WORK
AT SOUTH ELEVATION HANDICAP ACCESS RAMP

SCALE: 1/8" = 1'-0"



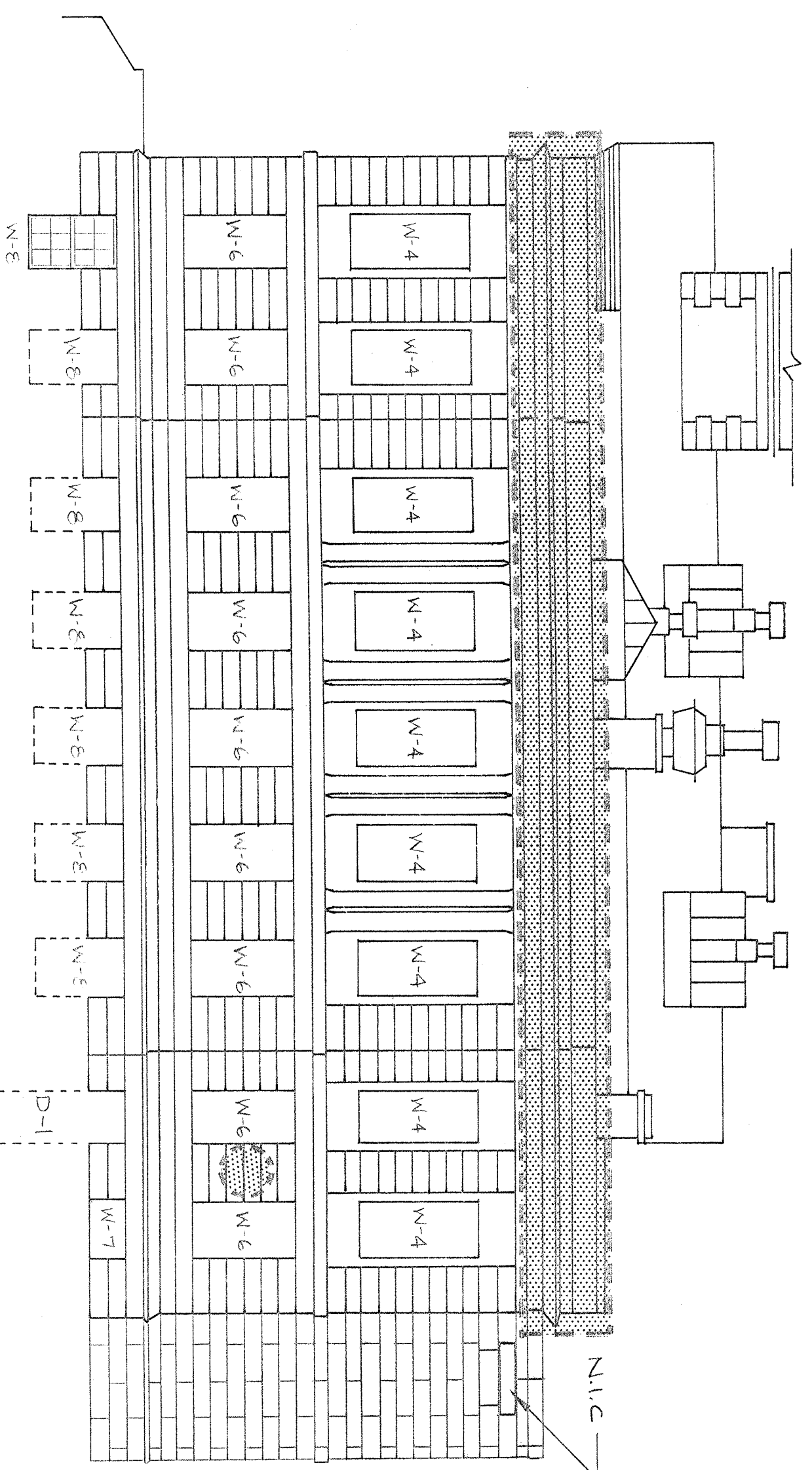
NORTH ELEVATION

SCALE: 1/8" = 1'-0"



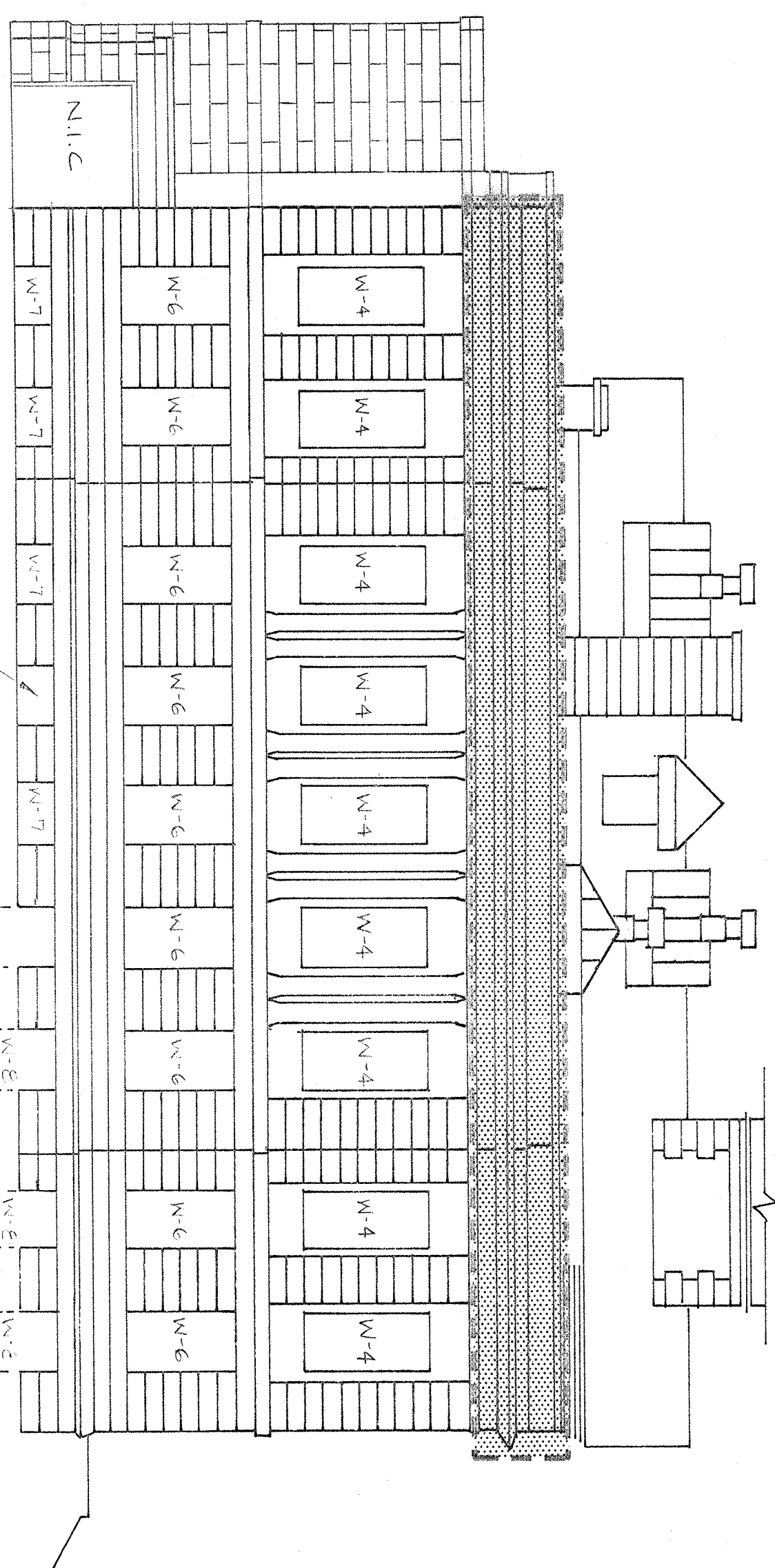
SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



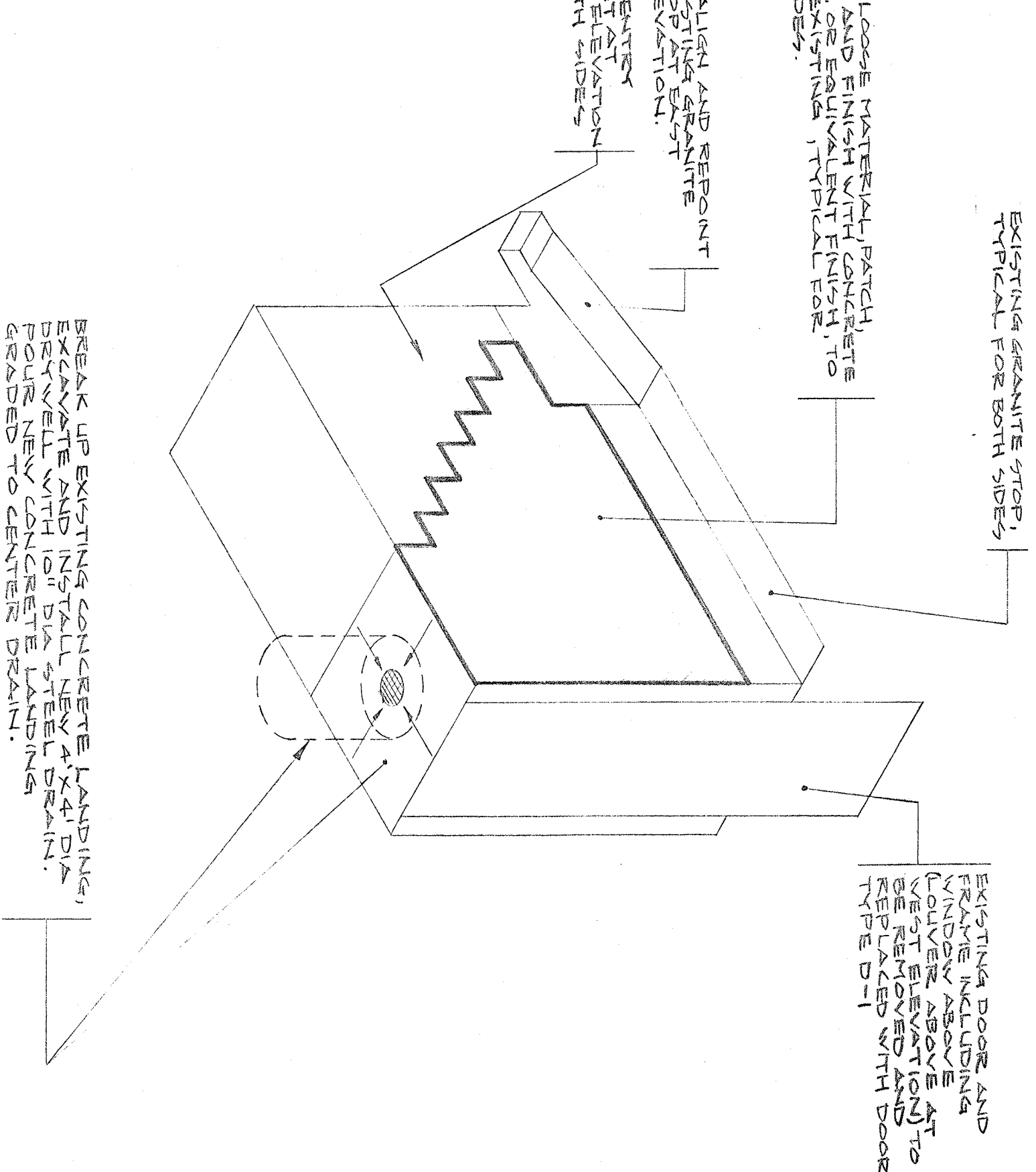
WEST ELEVATION

SCALE: 1/8" = 1'-0"



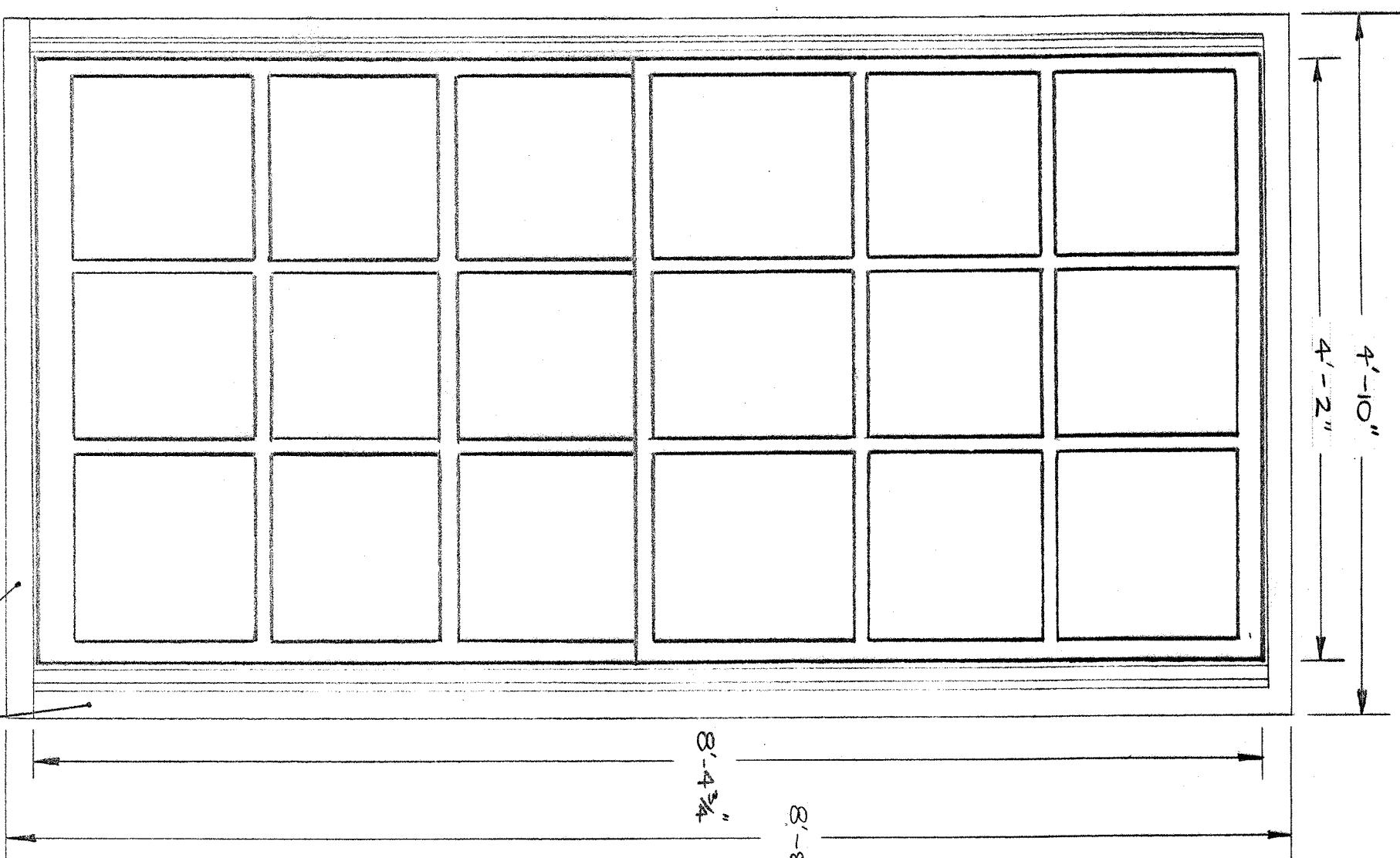
EAST ELEVATION

SCALE: 1/8" = 1'-0"



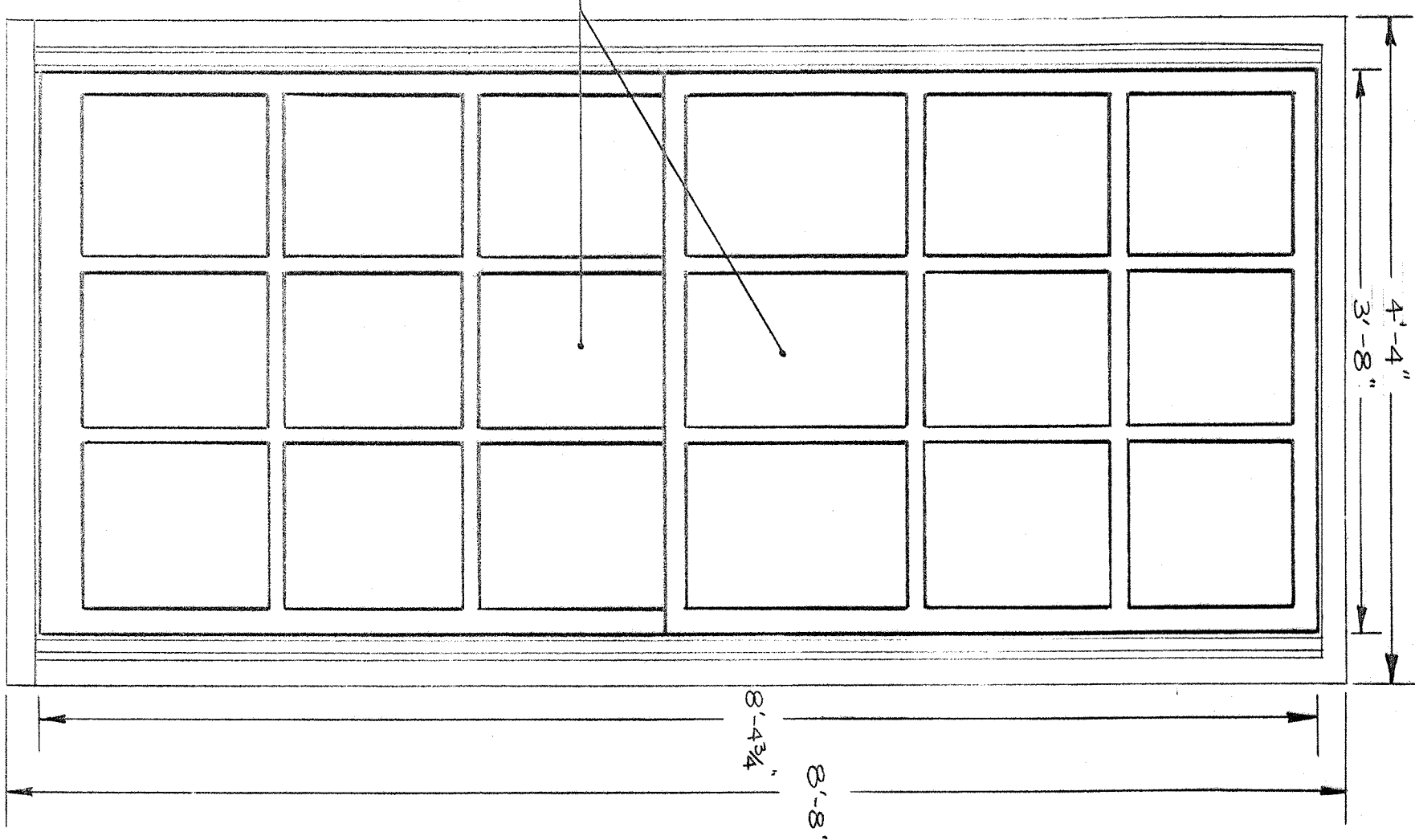
DETAIL OF WORK AT EAST AND WEST ELEVATION
ENTRANCES TO BASEMENT, TYPICAL

NOT TO SCALE

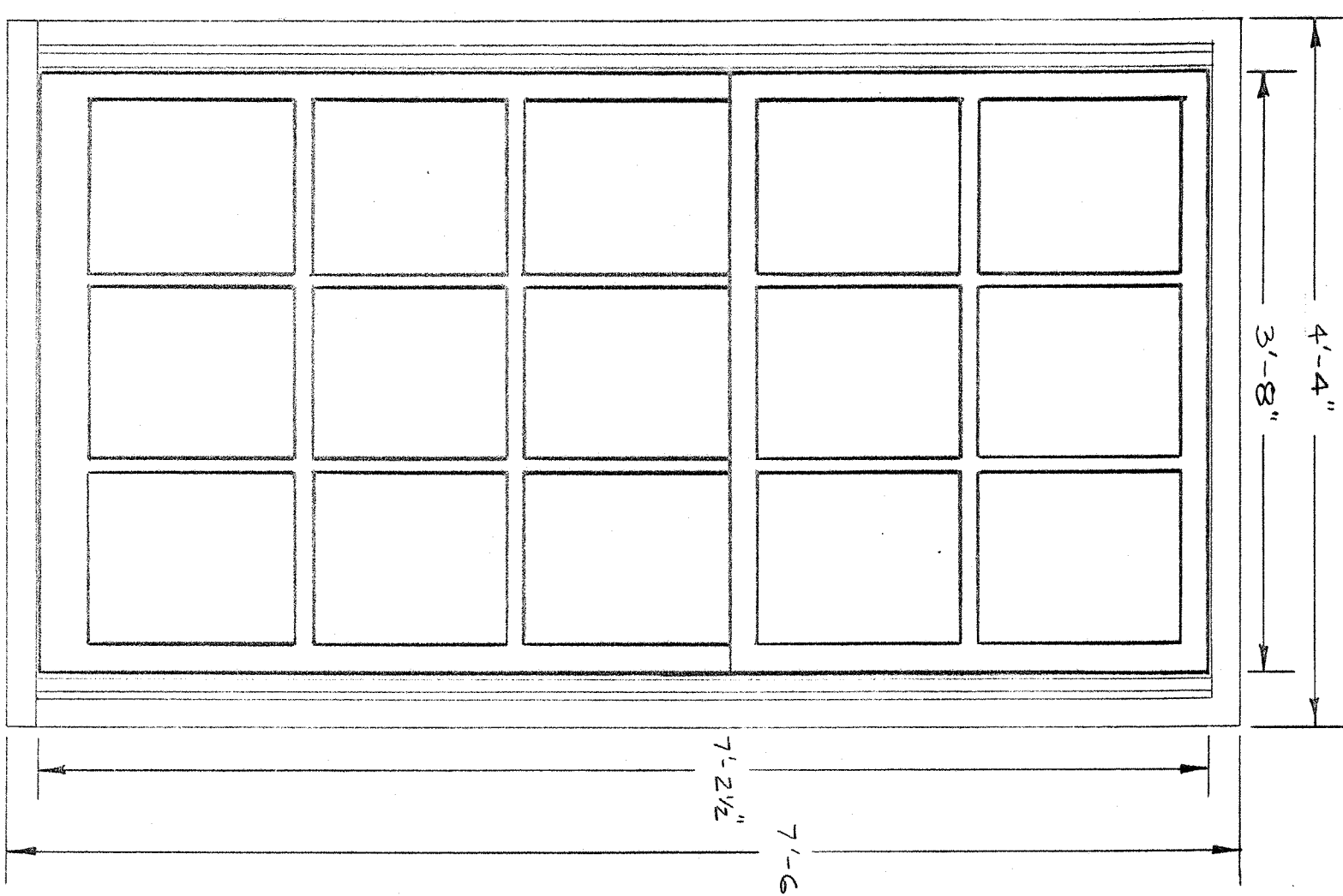


TYPE W-1

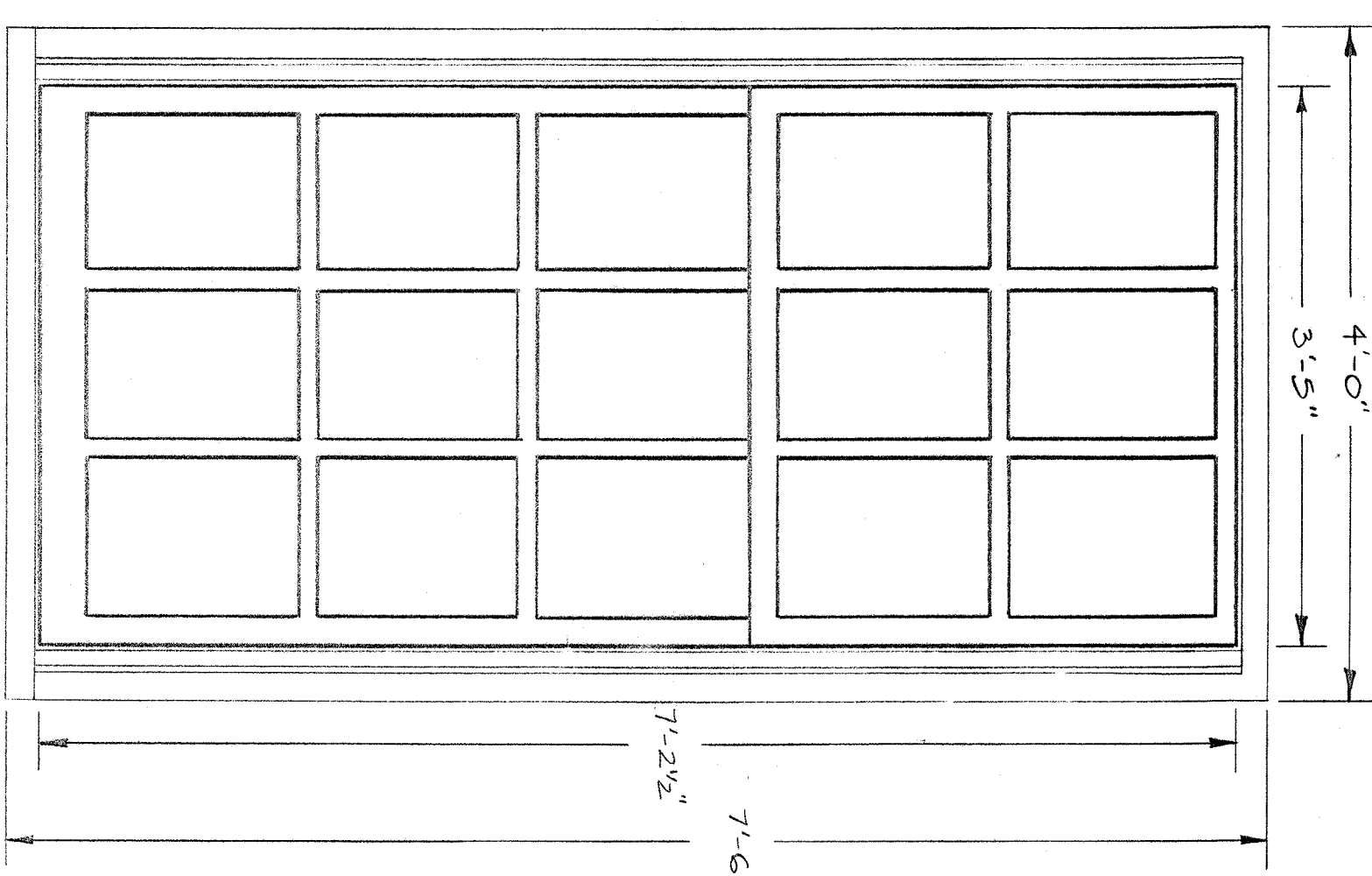
EXISTING FRAME AND SILL TO REMAIN, TYPICAL AT TYPES BUT NOT W-10.



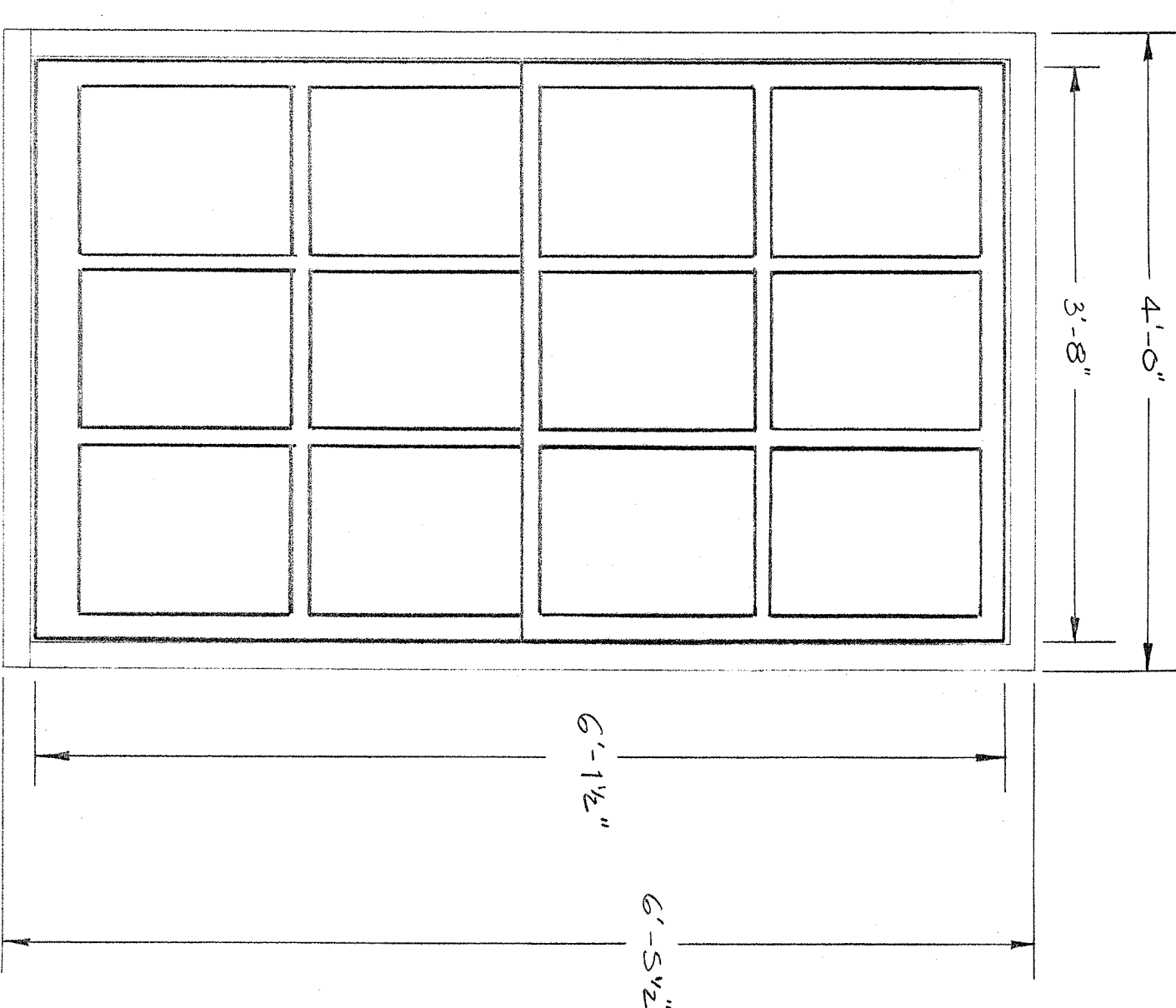
TYPE W-2



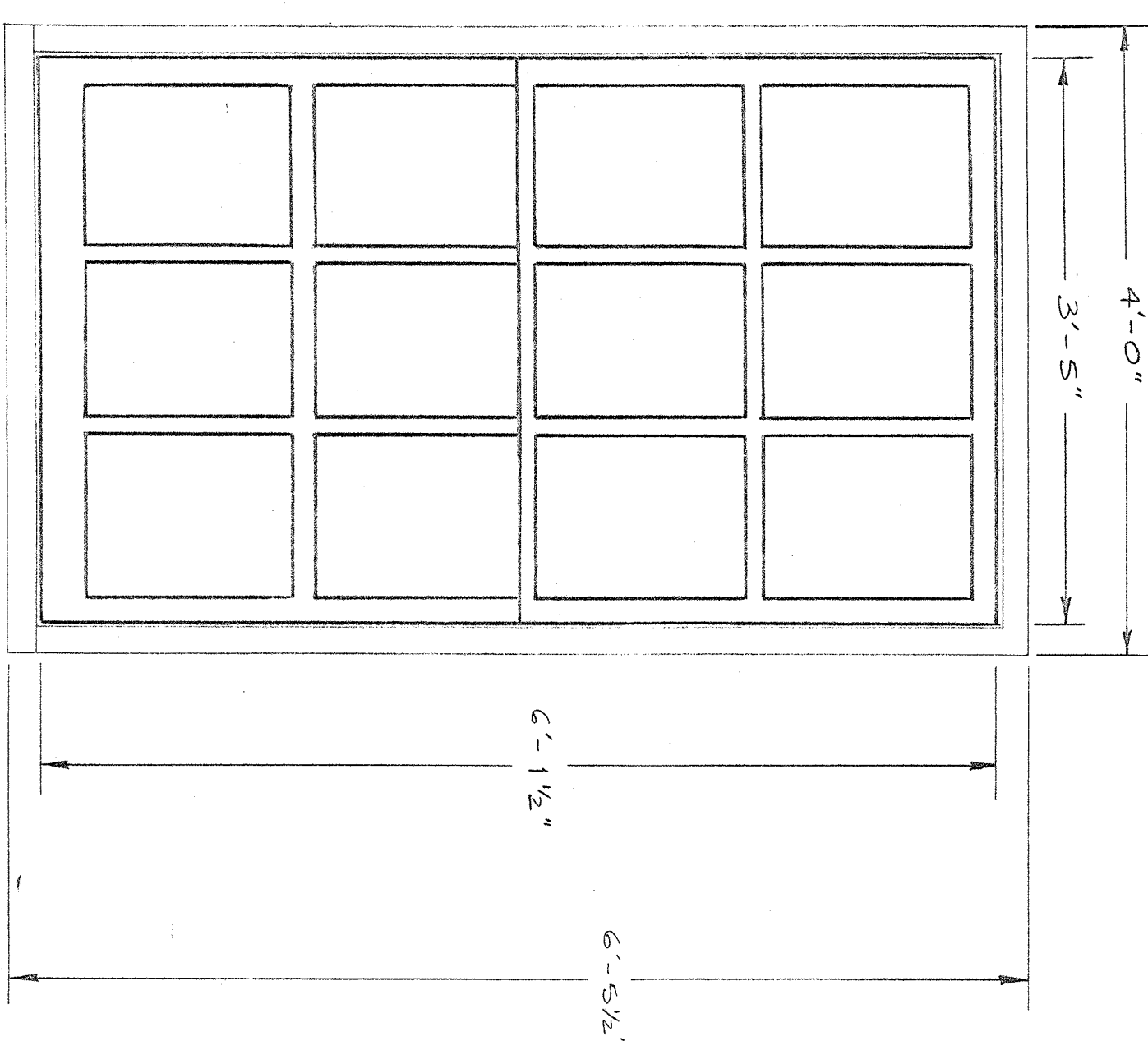
TYPE W-3



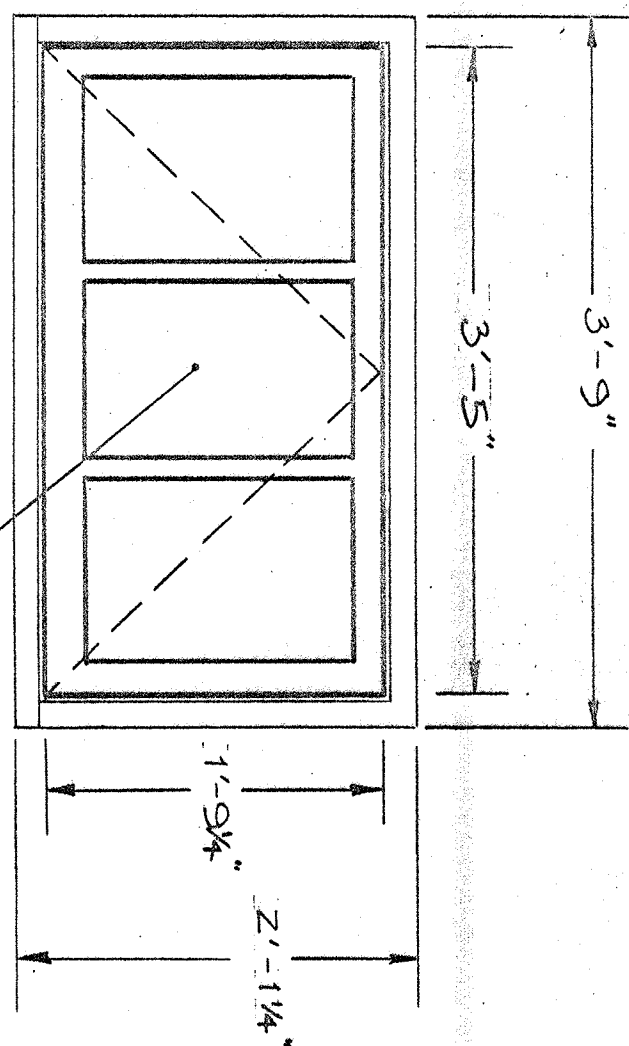
TYPE W-4



TYPE W-5

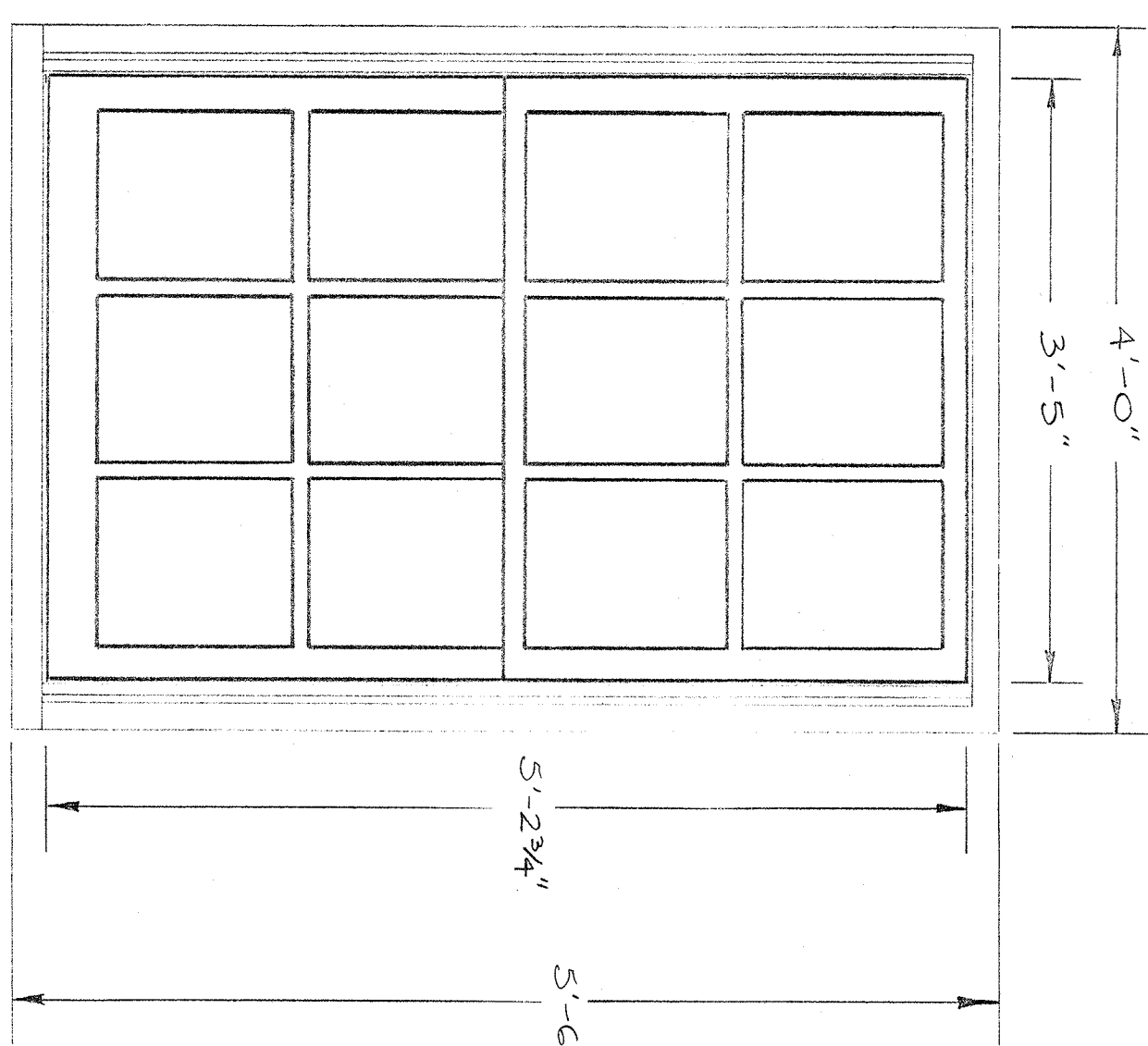


TYPE W-6

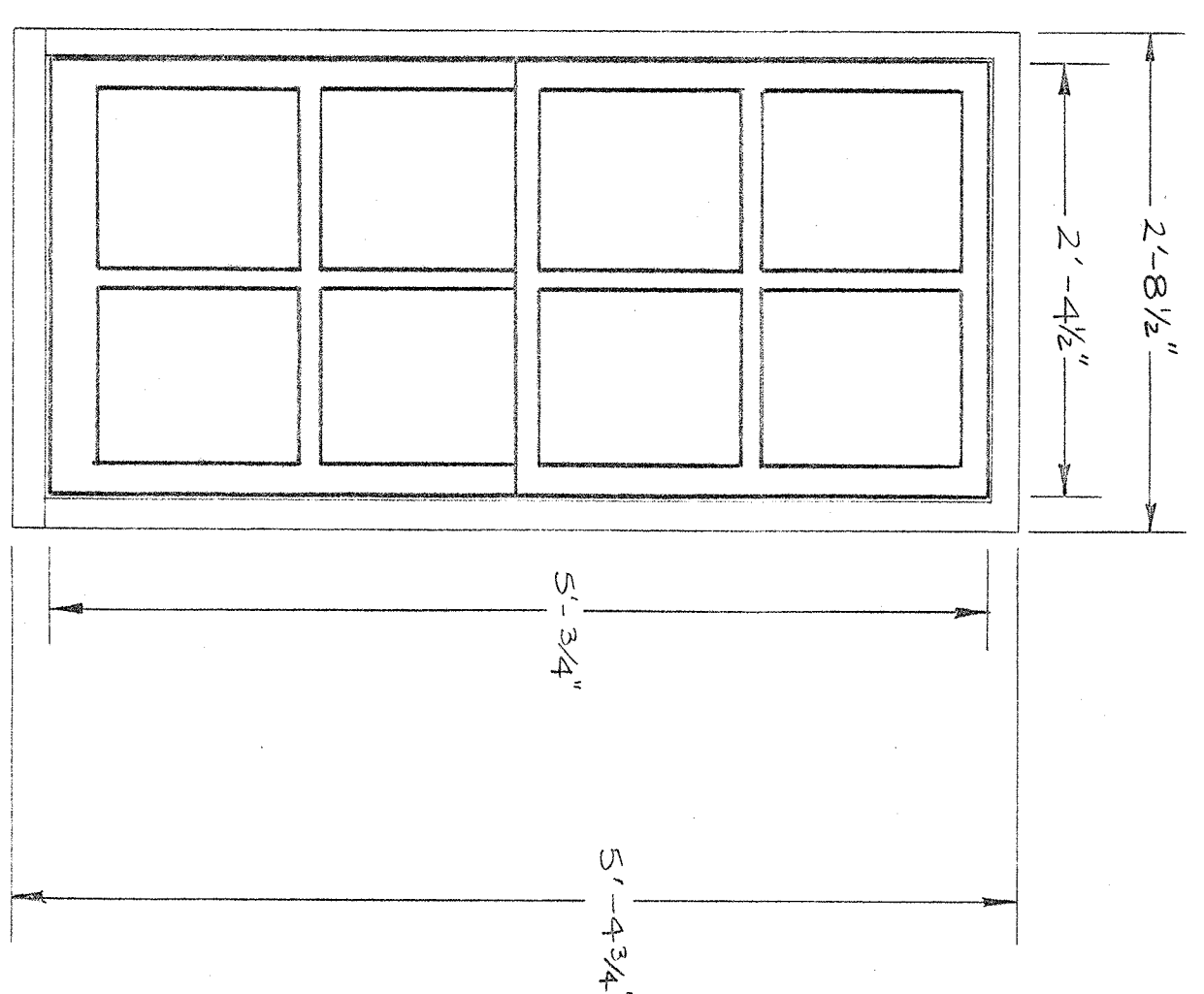


TYPE W-7

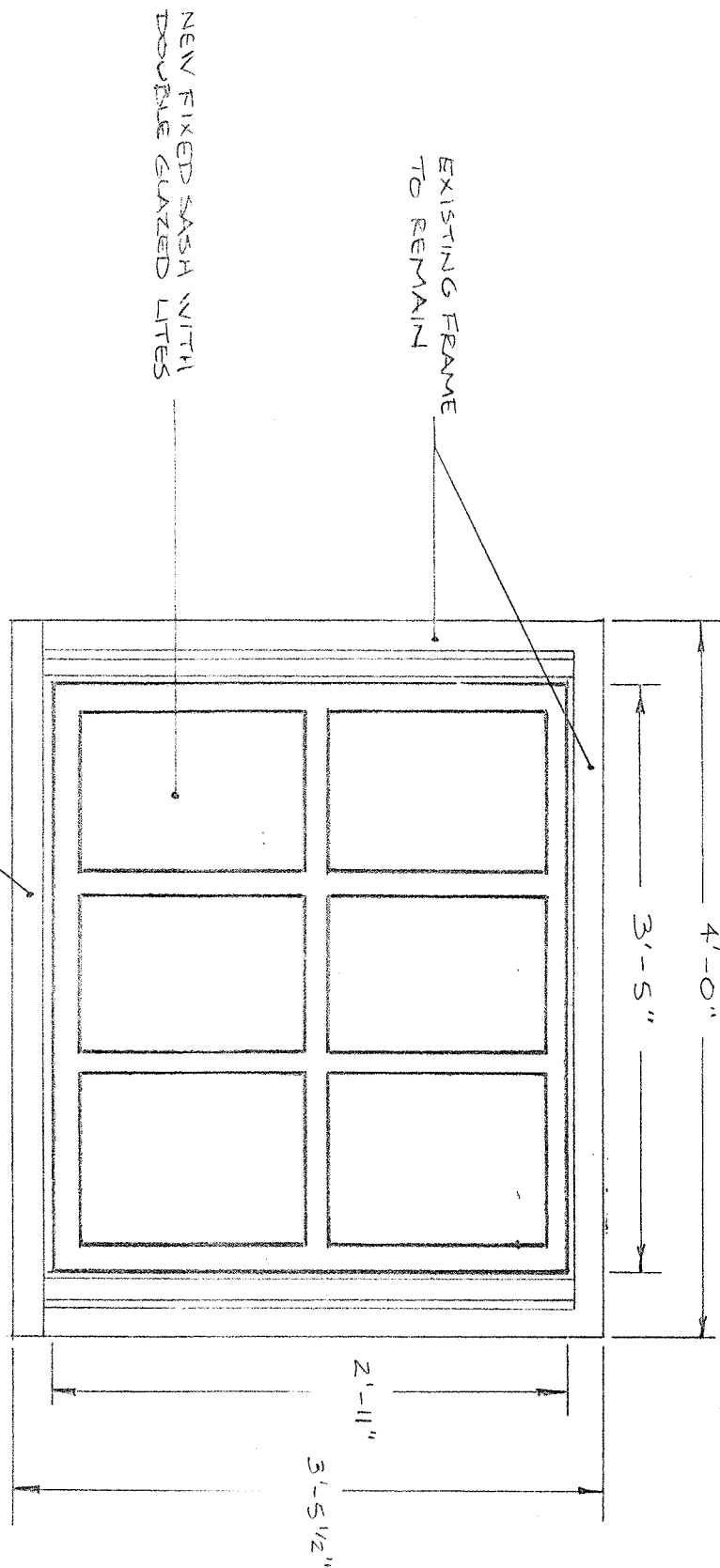
NEW KOPERSASH WITH DOUBLE GLAZED LITES, HINGED AT CENTER OF WINDOW JAMBES.



TYPE W-8



TYPE W-9



TYPE W-10

EXISTING DOOR TYPE D-2, FRAME REMAIN

NEW 5 1/2" SILL, SEE DOOR TYPE D-2 DETAIL, NEW DRAWING.

WINDOW AND DOOR NOTES

1. REMOVE ALL EXISTING WOOD WINDOW SASHES AND PARTING BEADS. RETAIN EXISTING FRAMES, INTERIOR CASING, AND SILL. PROVIDE ADDITIONAL INTERIOR TRIM TO MATCH EXISTING WHEREVER NECESSARY TO FILL VOIDS ON COVER STRUCTURAL COMPONENTS ON NEW WINDOWS.
2. REMOVE ALL EXISTING SASH WEIGHTS, ROPES, CHAINS, PULLEYS, ETC., AND COMPLETELY FILL ALL WEIGHT POCKETS WITH BLOWN-IN CLOSED CELL INSULATION.
3. FINISH AND INSTALL NEW WOOD WINDOW SASHES TO REPLICATE EXISTING IN ACCORDANCE WITH THESE DRAWINGS AND THE SPECIFICATIONS.
4. FULLY SCRAPE ALL EXISTING EXTERIOR WINDOW TRIM AND SILLS, AND REMOVE ALL LOOSE CAULKING. PRIME PAINT ALL SCRAPED SURFACES AND FINISH WITH TWO COATS OF HIGH GLOSS EXTERIOR OIL BASE BENJAMIN MOORE PAINT TO MATCH FINISH OF NEW WINDOW SASHES. RE-CAULK BETWEEN ALL WINDOW FRAMES AND MASONRY OPENINGS.
5. SCRAPE, CAULK, REPAIR OR REPLACE AND PAINT ALL INTERIOR OR EXTERIOR TRIM AS NECESSARY TO RESTORE ANY EXISTING TRIM DAMAGED DURING THE INSTALLATION OF THE NEW WINDOW SASHES.
6. NEW WINDOW SASHES SHALL BE FINISHED ON THE EXTERIOR AND INTERIOR AS NOTED IN THE SPECIFICATIONS.

* NOTE: ALL DIMENSIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR.

TYPE	R.O.	LITE COUNT/IN	UPPER SASH	LOWER SASH	QTY
W-1	68" X 104"	3 - ONE 9	50" X 51"	50" X 51"	1
W-2	52" X 104"	9 - ONE 9	44" X 51"	44" X 51"	2
W-3	52" X 90"	6 - ONE 9	14" X 35"	44" X 52 1/4"	2
W-4	48" X 90"	6 - ONE 9	41" X 35"	41" X 52 3/4"	32
W-5	48" X 75"	6 - ONE 6	44" X 36 1/2"	44" X 38 3/4"	2
W-6	48" X 75"	6 - ONE 6	41" X 36 1/2"	41" X 38 3/4"	34
W-7	45" X 25 1/4"	3 - LITES	41" X 21 1/4"	UPPER 20" X 25 1/4" LOWER 20" X 25 1/4"	22
W-8	48" X 66"	6 - ONE 6	41" X 31 1/2"	41" X 32 1/2"	10
W-9	36" X 66"	4 - ONE 4	28 1/2" X 30"	28 1/2" X 31 1/2"	4
W-10	48" X 41 1/2"	6 - LITES	41" X 35"	(FIXED)	2

TYPE	FRAME NO.	DOOR TYPE	SIZE	CLASS	DESCRIPTION	QTY
D-1	45 N 121"	POUR NET	6' X 6'6"	D3 - W-6	NEW FINISH POUR NET DOOR WITH 20" X 25 1/4" SASH	2
D-2	47' X 121 1/2"	DOOR	4' X 6' 3/4"	D3 - W-6	NEW WOOD DOOR WITH 20" X 25 1/4" SASH	2

John Z. Davis
Professional Engineer
State of New York
No. 13456
Exp. 12/31/2024

AS1

SCALE 1"=1'-0"

DATE 4/18/89

DESIGNED BY JZ

CHECKED BY JZ

WINDOW ELEVATIONS AND SCHEDULE

WALTHAM CITY HALL

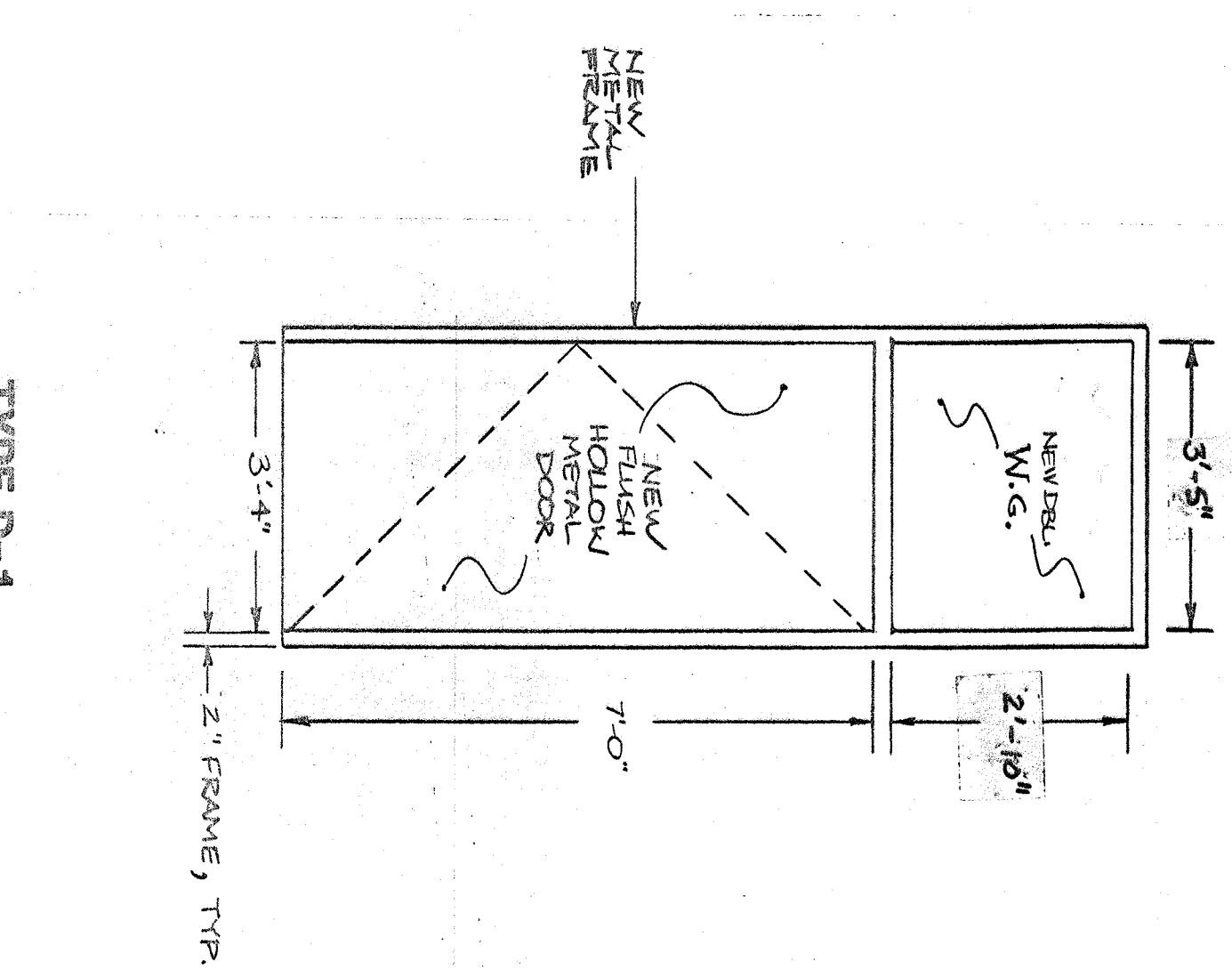
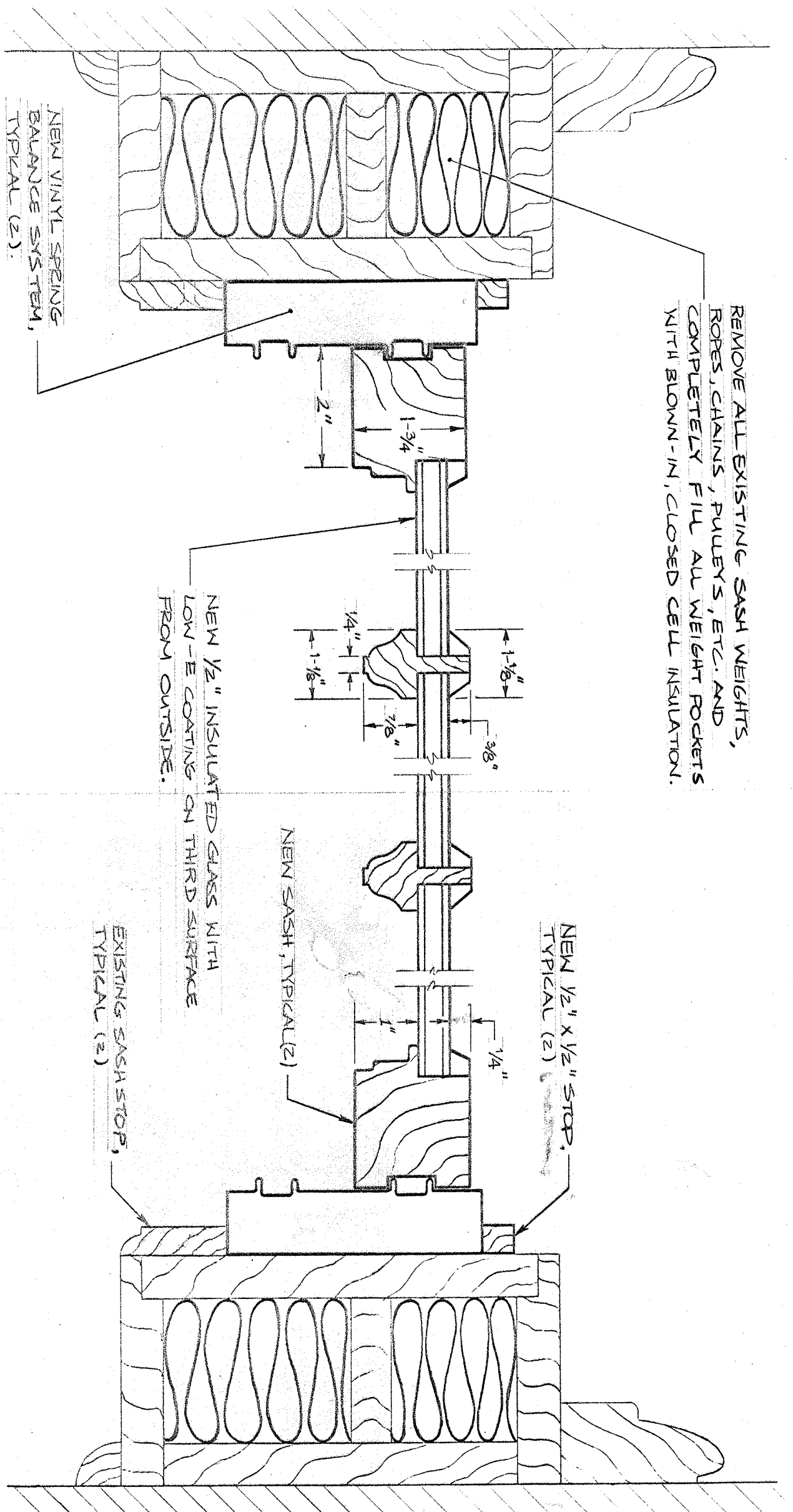
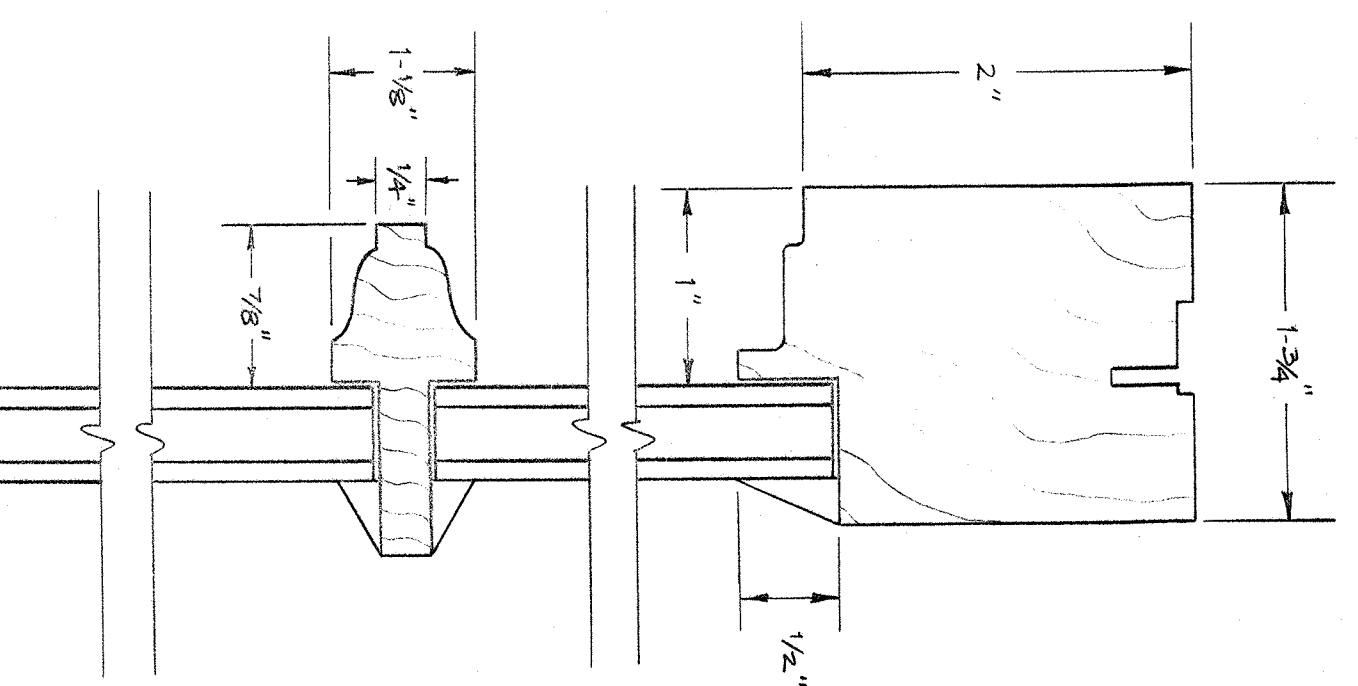
DRAWING NUMBER A-2

ENERGY SAVING DIVISION

100 WEST 10TH STREET, SUITE 200

ALBANY, NY 12207

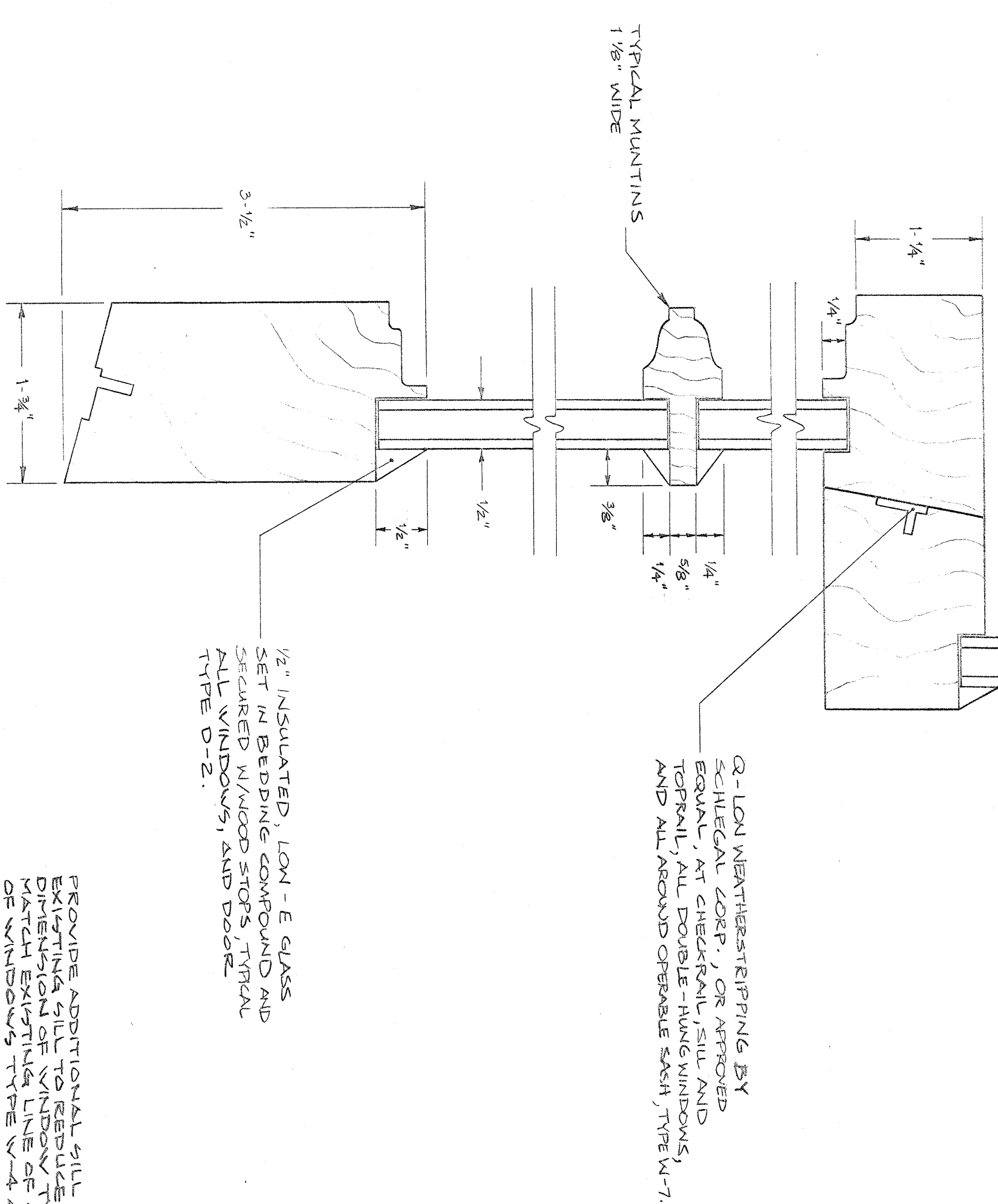
PHONE (518) 462-3100



NOTE:
INSTALL PANIC HARDWARE
ON ALL DOORS TYPE D-1
FOR EGRESS ONLY.

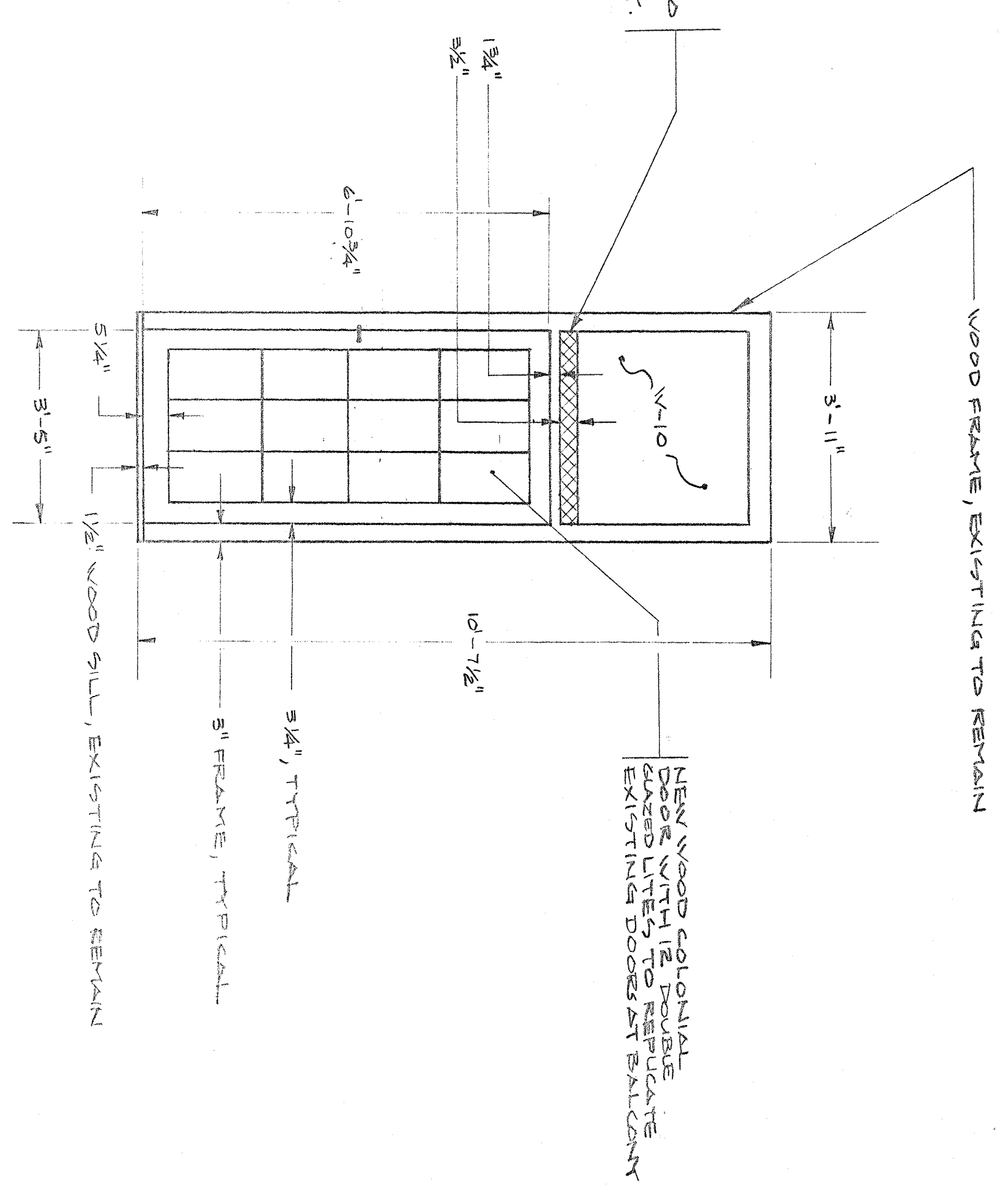
TYPICAL JAMB DETAIL FOR WINDOW TYPES:
W-1, W-2, W-3, W-4, W-5, W-6, W-8, W-9

1/2" SCALE



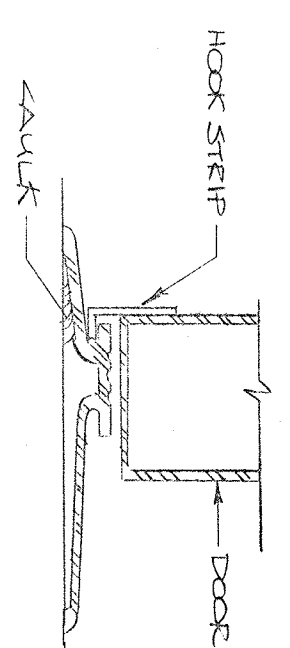
TYPICAL DOUBLE HUNG SASH SECTIONS

FULL SCALE



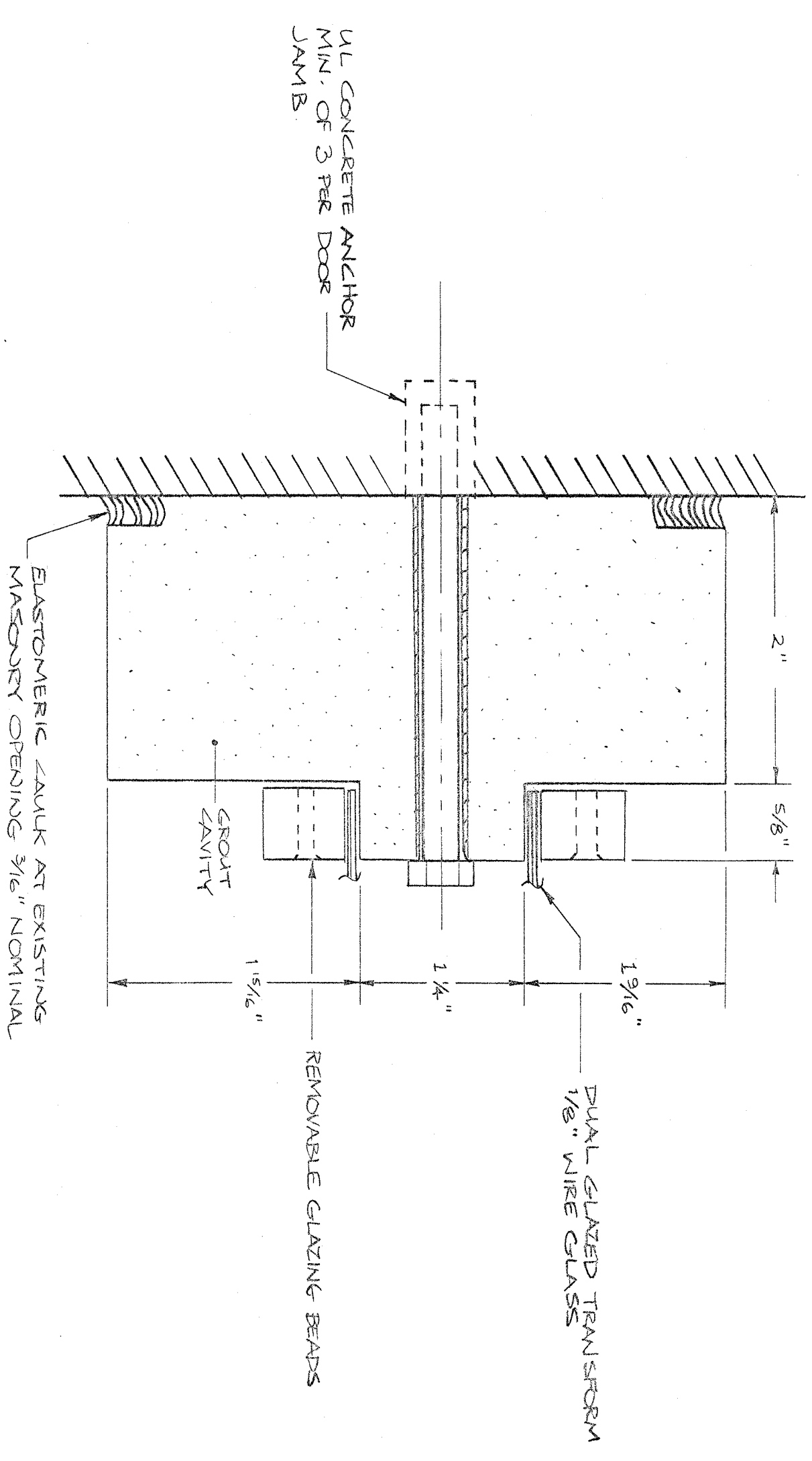
TYPE D-2

SCALE: 1/2"=1'-0"



THRESHOLD DETAIL

NOT TO SCALE



BUTT FRAME DETAIL

NOT TO SCALE

TYPE D-1

SCALE: 1/4"=1'-0"

ENERGY SYSTEMS DIVISION	
AS1	
SCALE: AS NOTED	APPROVED BY: JZ
DATE: 4/88	SCALE: 1/2"=1'-0"
WINDOW AND DOOR DETAILS	
WALTHAM CITY HALL	
A-3	

EQUIPMENT CALLOUTS

BOILER FEED UNIT
 17 GAL. RESERVE TANK
 1/2" GPM @ 20 PSIG DISCHARGE PRESS.
 1/2" MOTOR 170/11/60

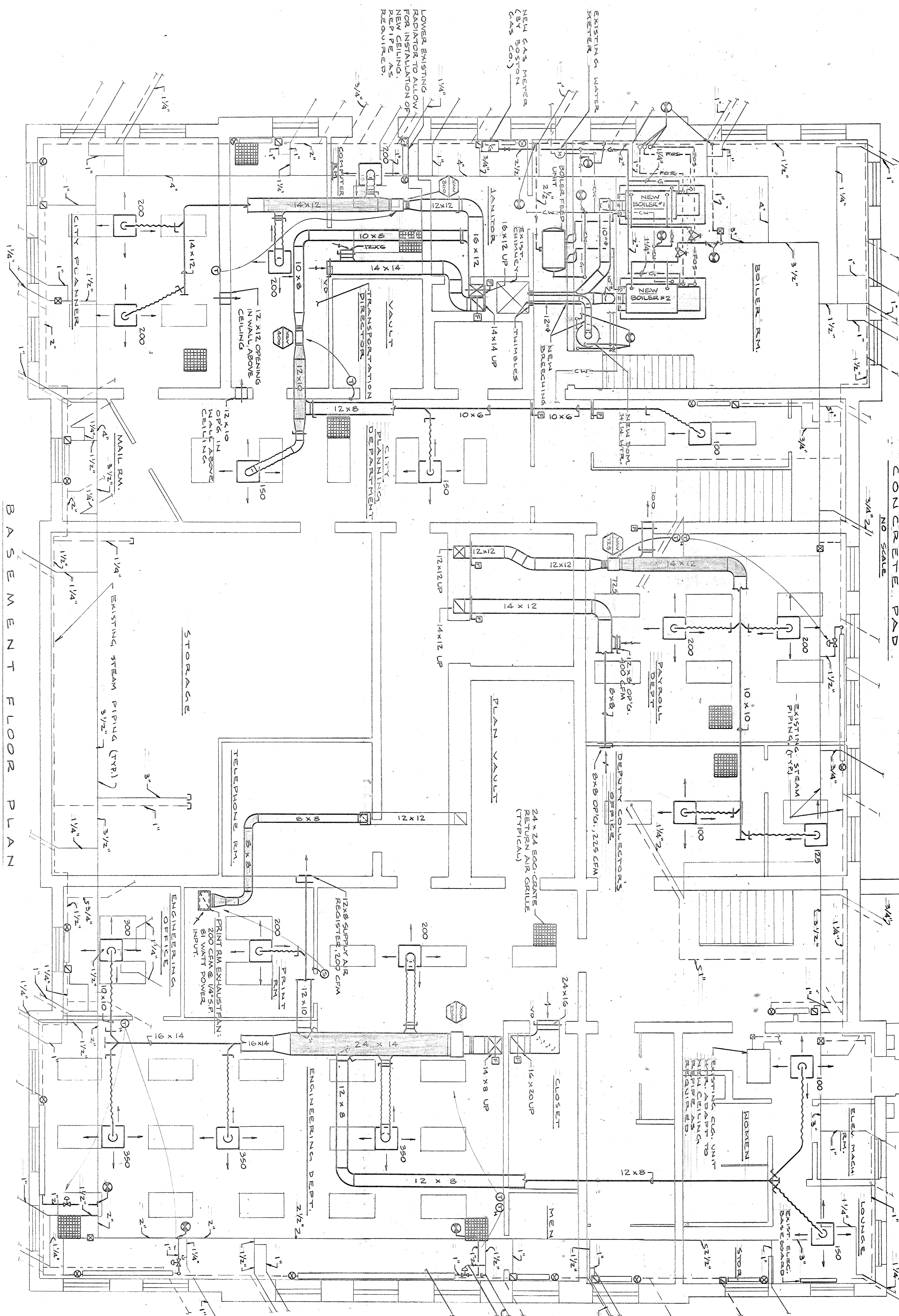
STEAM BOILERS (COMBINATION GAS/OIL)
 GAS INPUT 184,000 BTU/HR.
 GAS OUTPUT 184,000 BTU/HR.
 OIL INPUT 224,000 BTU/HR.
 OIL OUTPUT 224,000 BTU/HR.
 NET OUTPUT 468,000 BTU/HR.

NOTES

1. REINFORCE STEEL SHALL BE ASTM A-166
2. CONCRETE SHALL BE TYPE "C" AIR-ENTRAINED, 3000 P.S.I. @ 28 DAYS.
3. PROVIDE CONCRETE PAD FOR BOILER FEED UNIT.

CONCRETE PAD

NO SCALE



GENERAL NOTES

1. SHOWN BUT NOT INDICATED "THICK" DIMENSIONS ARE NOT TO BE CONSIDERED. DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.
2. EXISTING PIPING IS SHOWN ON THE DRAWING. BUT NOT INDICATED TO BE REMOVED. NEW PIPING TO BE INSTALLED SHALL BE SHOWN WITH A THICK LINE. THIS CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING PIPING. PIPING IS ALSO LOCATED IN CRAWL SPACE BELOW BASEMENT FLOOR, WHICH IS NOT SHOWN ON THE DRAWING.
3. ALL ALTERATIONS TO EXISTING PIPING, VALVE INSTALLATION, OR EQUIPMENT SHALL BE APPROVED BY THE CONTRACTOR.

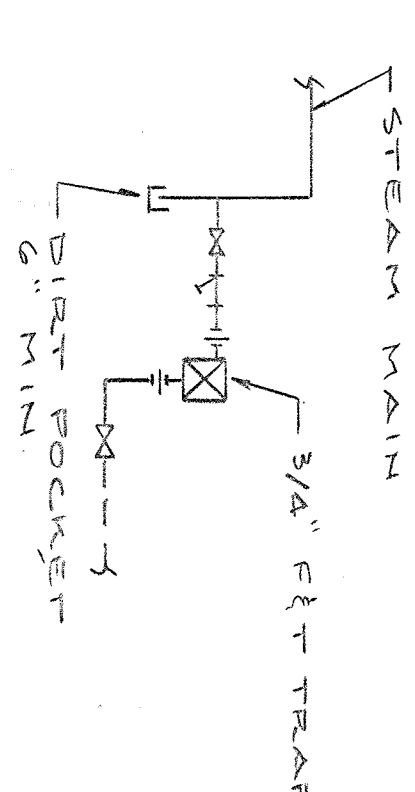
BASEMENT FLOOR PLAN

SCALE: 1/4" = 1'-0"

4. THIS CONTRACTOR SHALL RE-ROUTE AND/OR RELOCATE EXISTING PIPING IF REQUIRED FOR INSTALLATION OF NEW DUCTWORK.
5. ALL EXISTING RADIATION SHALL BE THOROUGHLY CLEANED OUT AND DISPOSED OF AT SEPARATE AND DEDICATED.
6. COORDINATE LOCATION OF DEFLECTS, RELECTED CEILING PLANS, WITH THE CONTRACTOR.

STEAM DRAIN PIPING

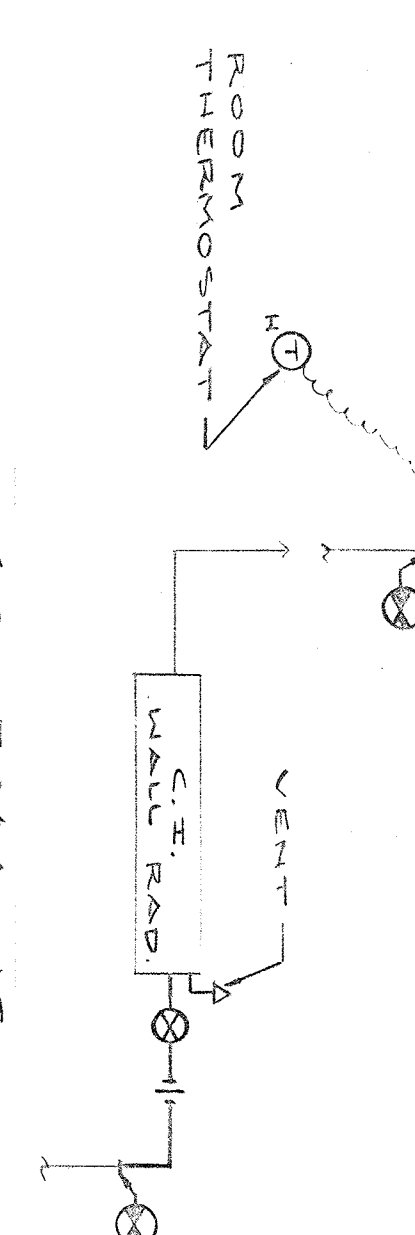
NO SCALE



SCHEMATIC

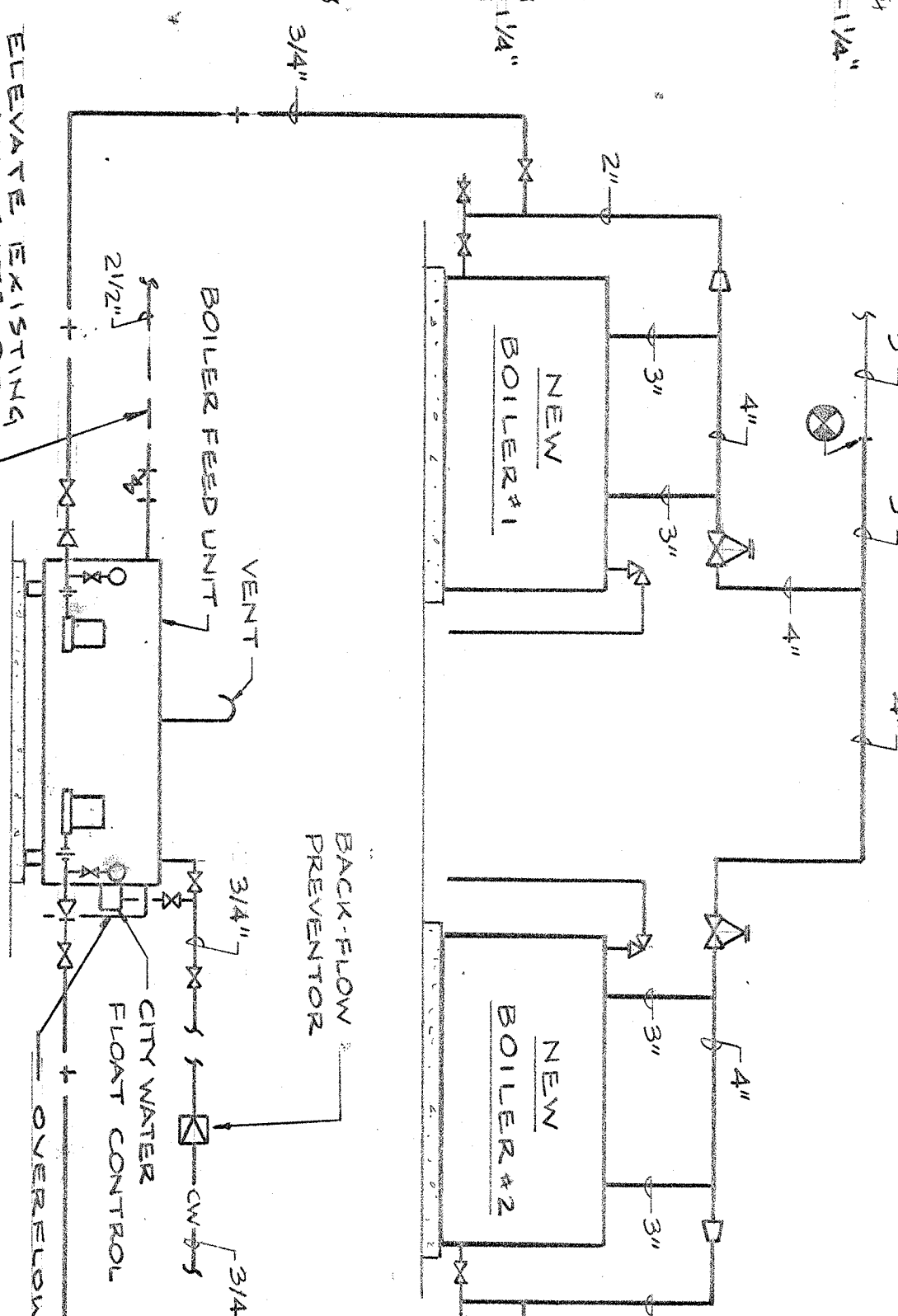
EXISTING CAST IRON WALL RADIATOR TRAP & ELECTRIC VALVE INSTALLATION ARRANGEMENT

NO SCALE



SCHEMATIC DIAGRAM BOILER AND BOILER FEED WATER PIPING

NO SCALE



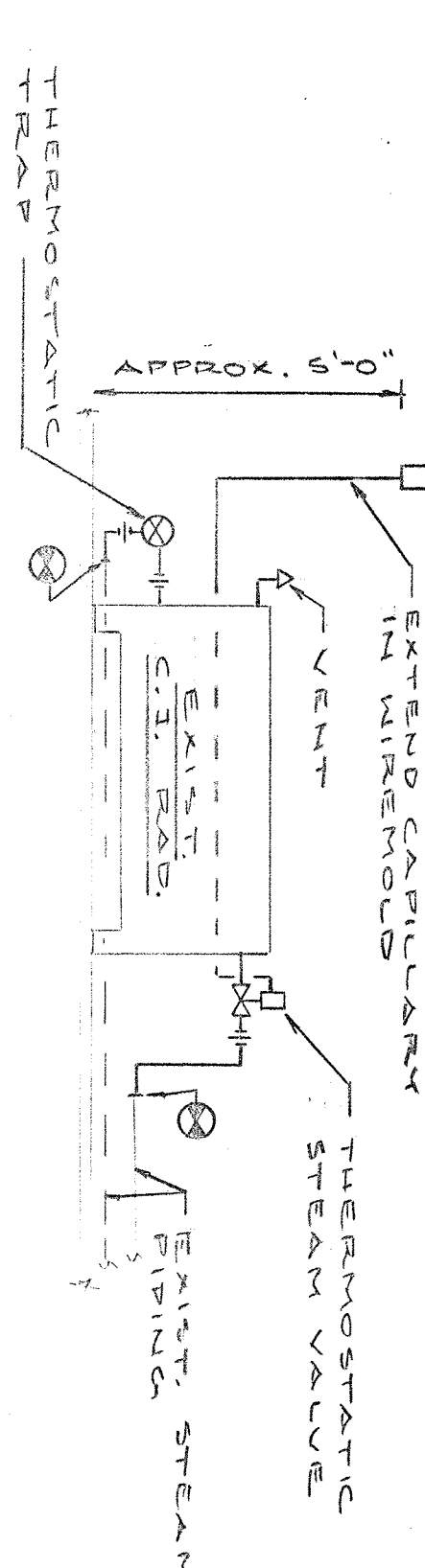
VAV BOXES SHALL BE RATED FOR MAXIMUM NC = 30 & 1" ΔP

VAV BOX SCHEDULE	CFM RANGE	INLET SIZE	MAX. ΔP
0 - 250	5" x 8"	1.0	
251 - 400	6" x 8"	1.5	
401 - 600	8" x 8"	1.5	
601 - 1200	10" x 8"	2.0	
1201 - 1800	12" x 8"	1.7	
1801 - 2500	14" x 8"	1.7	

SUPPLY AIR DIFFUSERS SHALL BE RATED @ MAXIMUM NC = 30

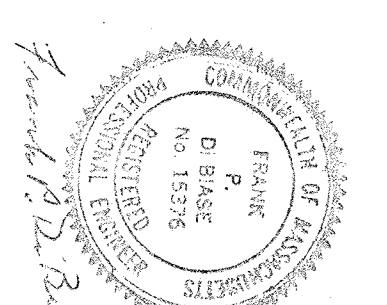
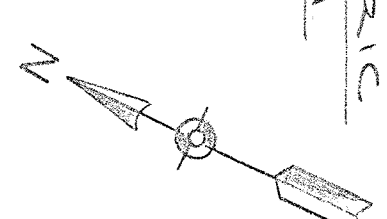
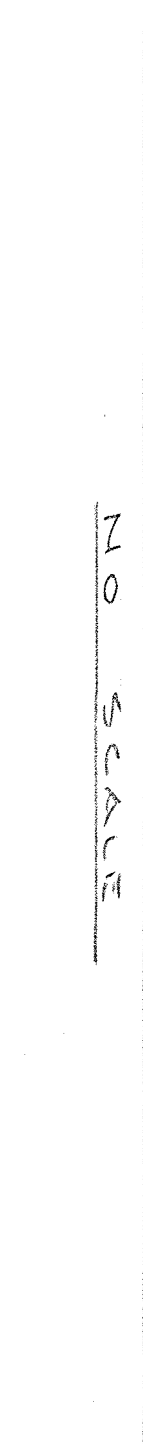
SUPPLY AIR DIFFUSER SCHEDULE	CFM RANGE	NECK SIZE	N.C.
0 - 125	6" x 4"	25	
126 - 200	8" x 4"	25	
201 - 325	10" x 4"	30	
326 - 450	12" x 4"	25	
451 - 600	14" x 4"	30	

FLEXIBLE BRANCH DUCT SCHEDULE	CFM RANGE	DUCT SIZE	N.C.
0 - 125	6" x 4"	25	
126 - 200	8" x 4"	25	
201 - 325	10" x 4"	30	
326 - 450	12" x 4"	25	
451 - 600	14" x 4"	30	

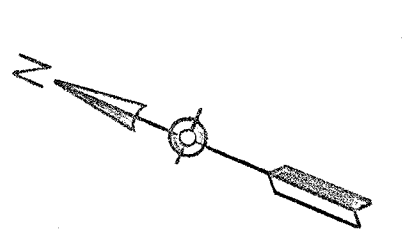


SCHEMATIC EXISTING THERMOSTATIC VALVE TRAP & THERMOSTATIC VALVE INSTALLATION ARRANGEMENT

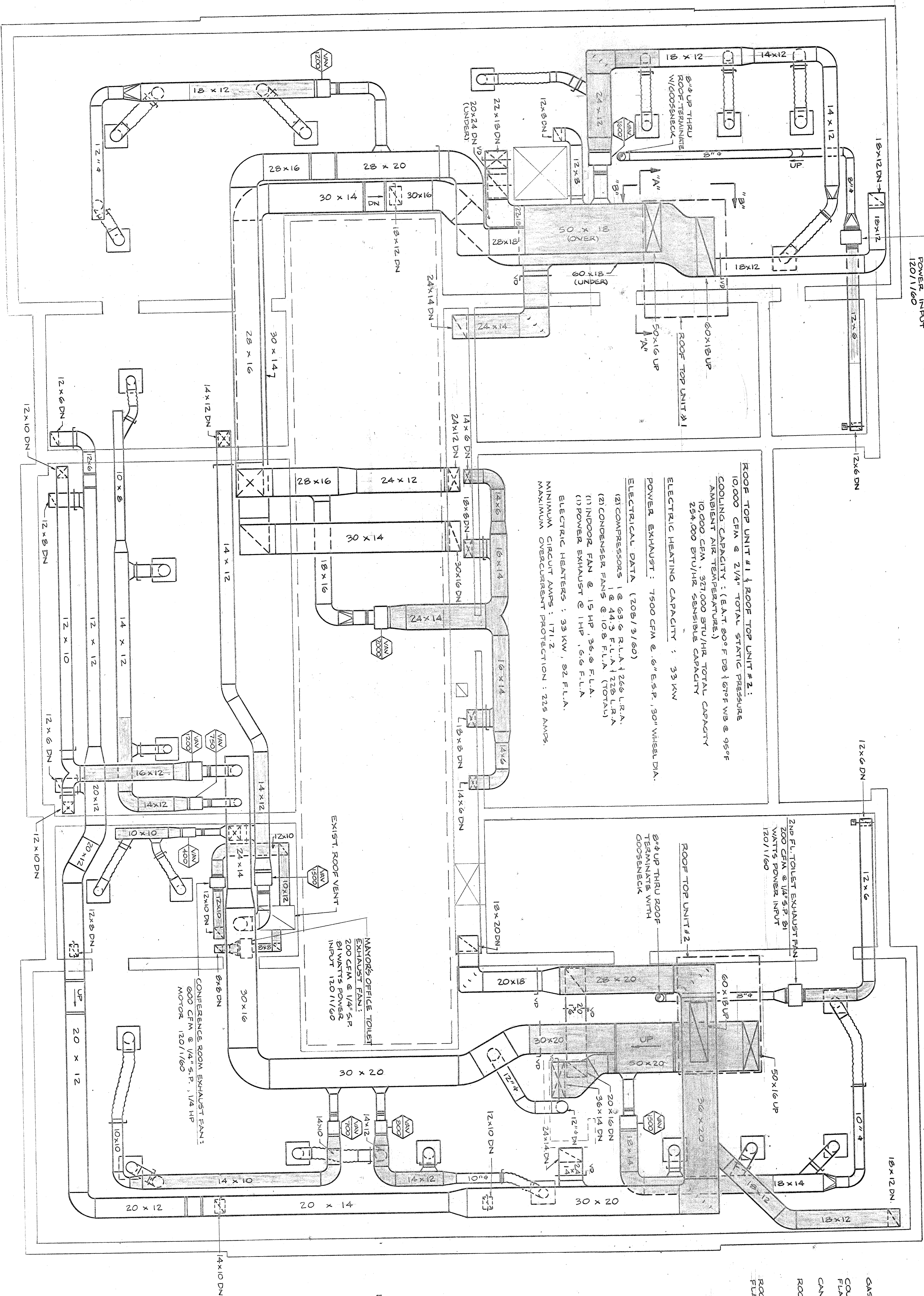
NO SCALE



ASI ENERGY SYSTEMS DIVISION 100 WASHINGTON STREET, SUITE 200 BOSTON, MASSACHUSETTS 02108 DATE: 4/89 SCALE: AS NOTED DRAWN BY: K.L.N. CHECKED BY: W.D.-89-308 PROJECT: BASEMENT FLOOR PLAN - HVAC DRAWING NUMBER: HVAC-1	WALTHAM CITY HALL
---	-------------------

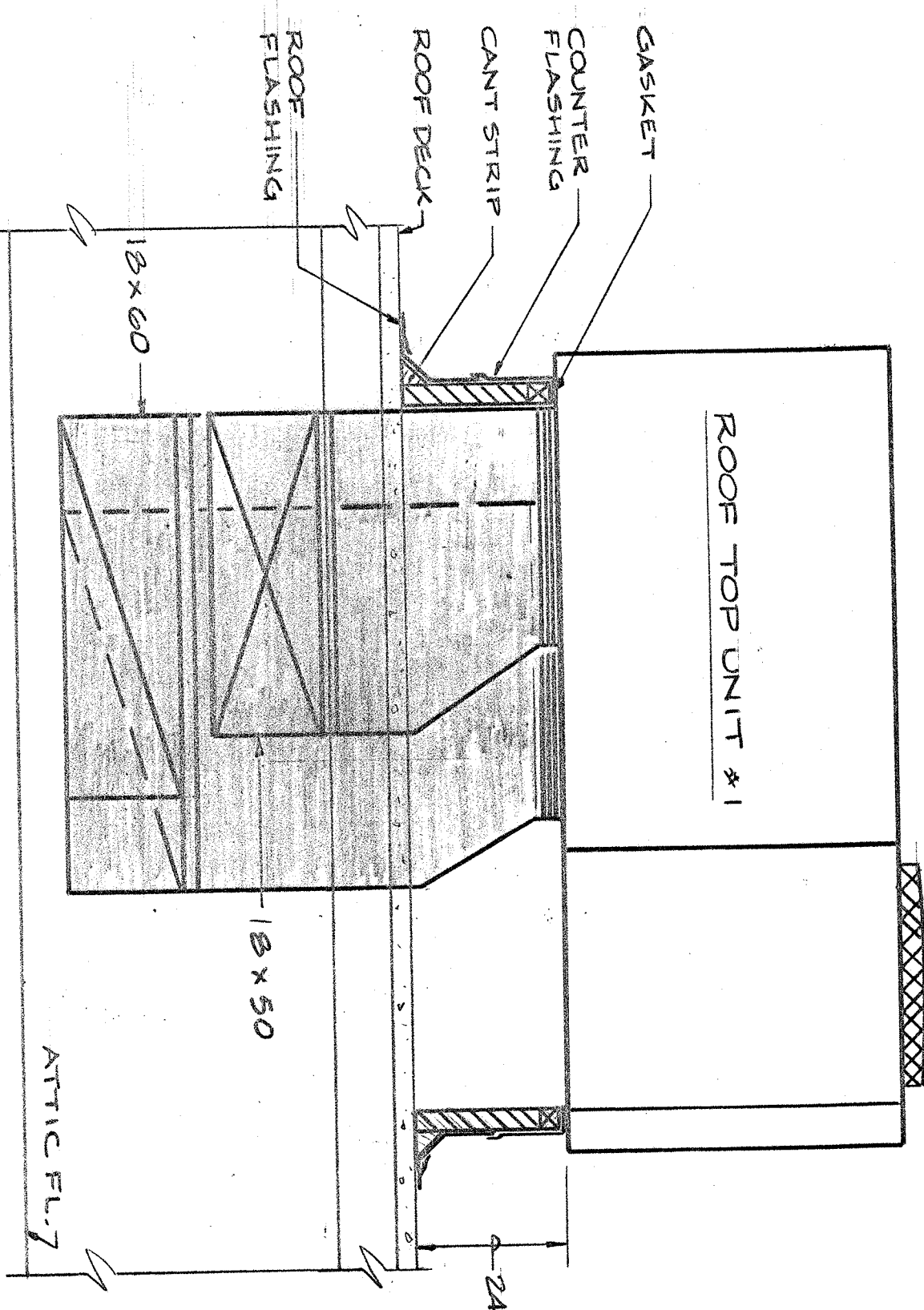


2ND FLOOR TOILET EXHAUST FAN:
200 CFM @ 1/4" S.P. 81 WATTS
POWER INPUT
120/1/60

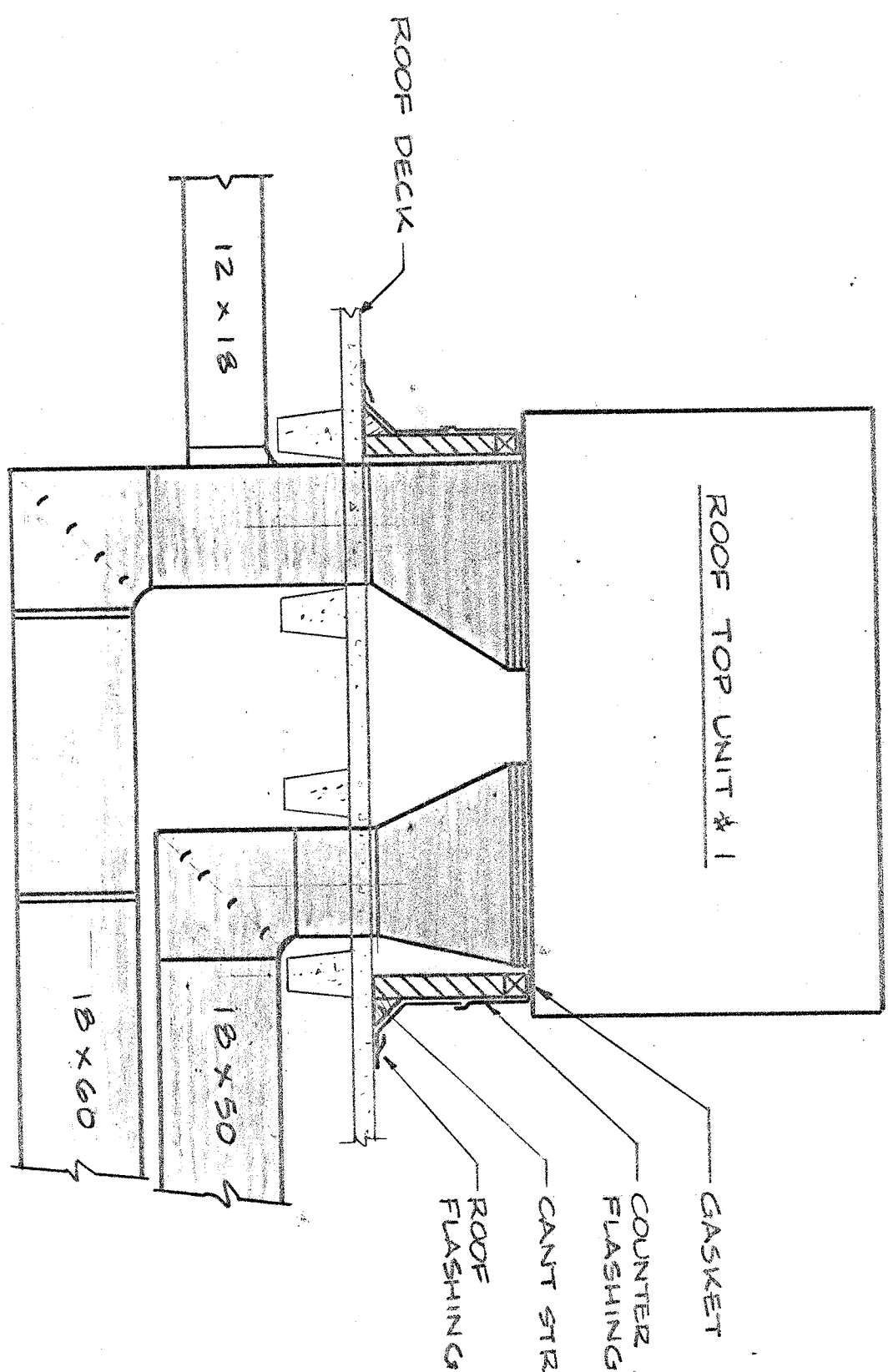


ATTIC PLAN
SCALE: 1/4" = 1'-0"

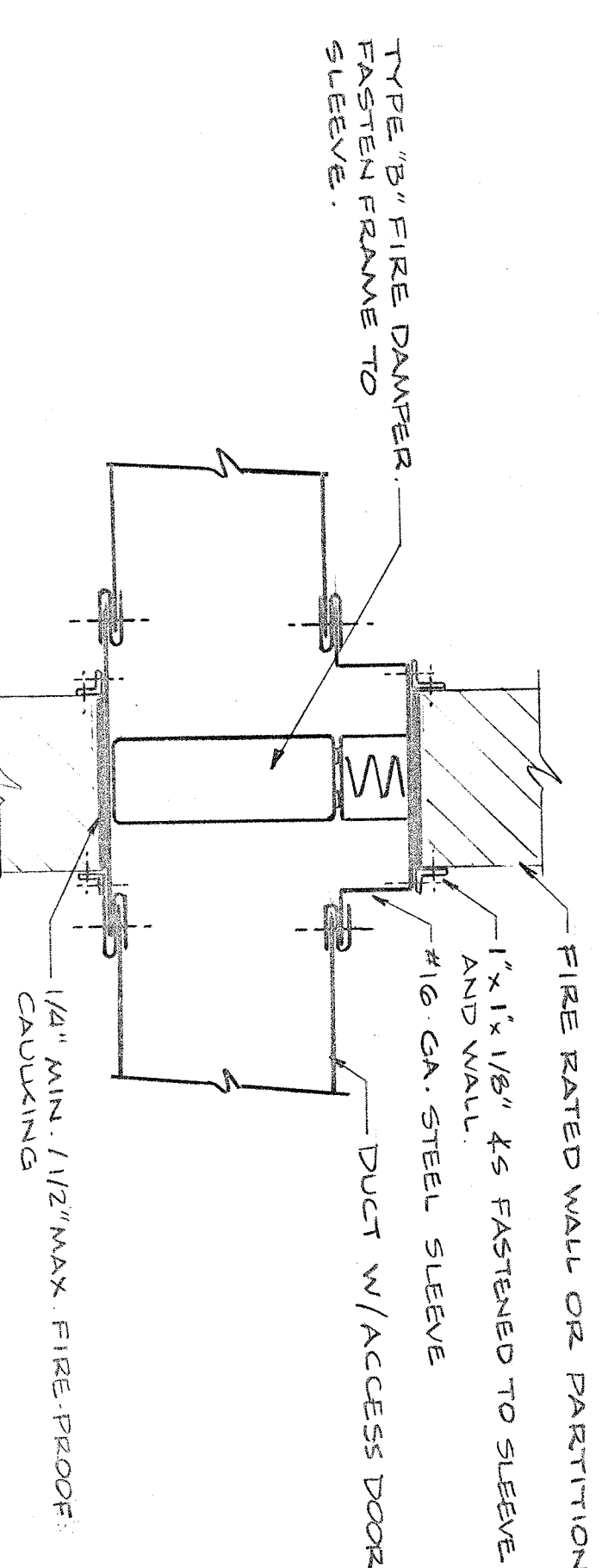
NOTE:
EXISTING CATWALKS IN ATTIC SHALL BE ALTERED AND
ADDITIONAL CATWALKS INSTALLED TO PROVIDE COMPLETE
ACCESS FOR SERVICE EQUIPMENT LOCATED IN ATTIC.



SECTION "A-A"

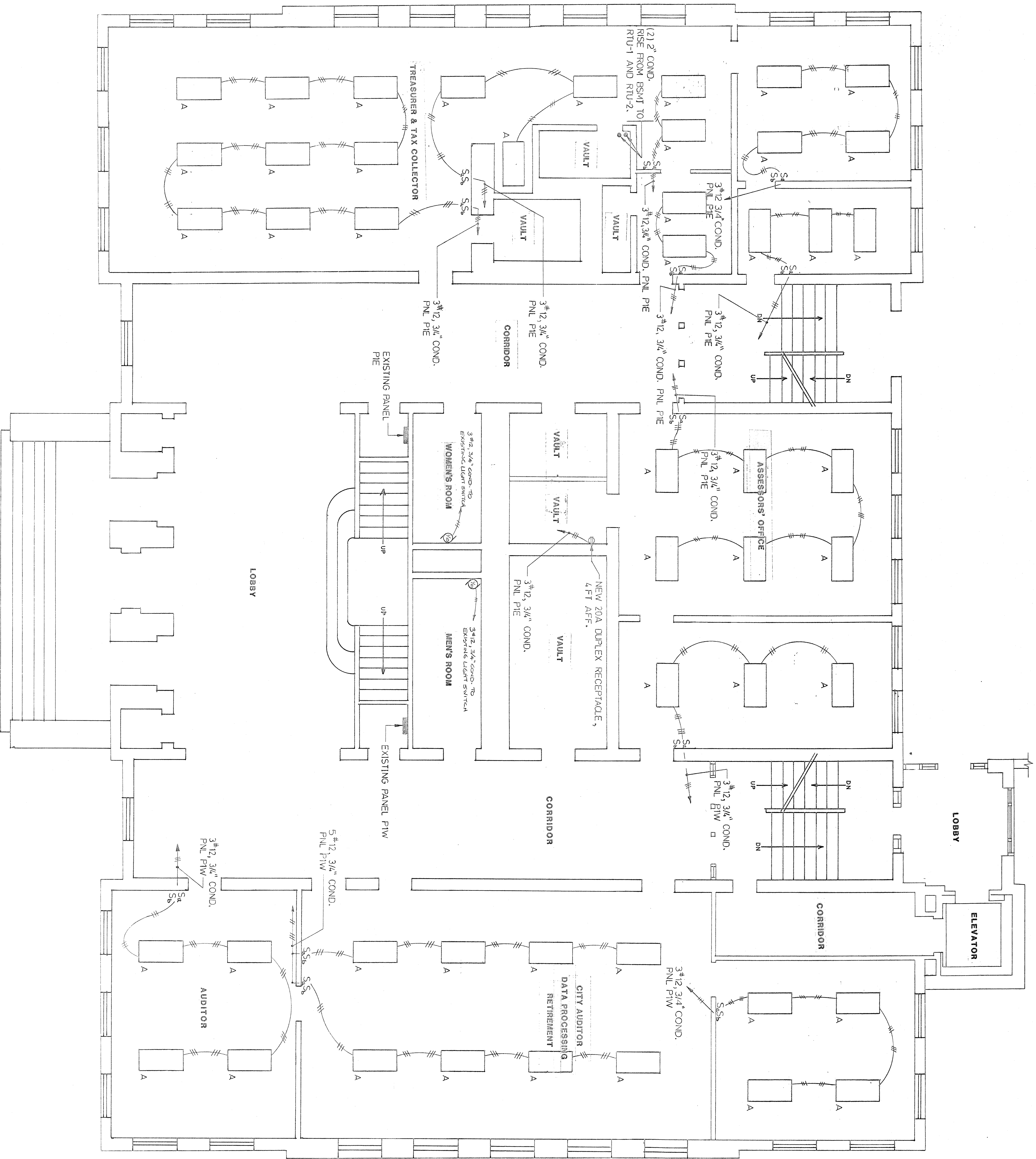


SECTION "B-B"



FIRE DAMPER
INSTALLATION ARRANGEMENT
NO SCALE

NOTE:
DAMPERS SHOWN ARE FOR HORIZONTAL DUCTS. VERTICAL
DAMPERS ARE SHOWN EXCEPT SPRING LOADED FIRE
DAMPERS ARE USED



FIRST FLOOR PLAN

